

International Abstract of Surgery

SUPPLEMENTARY TO

Surgery, Gynecology and Obstetrics

EDITOR\$

FRANKLIN H MARTIN M D Chicago
PROF PAUL LECÈTE PARIS France
SIR BERAELEY MOYNIHAN A C M G C B Leeds England

SUMNER L KOCH M D Abstract Editor Michael L Mason Assistant Editor

Volume \LVIII

January to June 1929

PUBLISHED BY
THE SURCICAL PUBLISHING COMPANY OF CHICAGO
54 FAST ERIE STREET CHICAGO
1020

COPT 10MT BY
THE SURGICAL PUBLISHING COMPANY
OF CHICAGO
9 9

Date of Aco

CONSULTING EDITORIAL STALF

GENERAL SURGERY

UNTILD STATES DOARD C BARDOR WILLAND BASTLETT FERENCE \ BESLEY ARTHER DEAN BEANY JOIN F BY BY BY COPPEY F CRECORY CONVILL FREDERIC COTTOY GEORGE W CHIEF WILLIAM R CUBBAS HAVEN CUBBAS HAVEN CUBBAS HAVEN DAVID CHIEF RESEARCH OF CHIEF RESEARCH CONTROL OF CHIEF WILLIAM R CUBBAS HAVEN CUBBAS HAVEN DAVID CONTROL OF CHIEF WILLIAM R CUBBAS HAVEN CUBBAS HAVEN DAVID RANGE A THORNER FRANCE LINES WILLIAM FULLE A JOIN H GIBBOY W W GRANT M L HARBE A F HENNEK WILLIAM W HESSERT THOMAS W HANTWOODY JARES OF STRARF JOOD C E KARLEE ABTUREA LAW DAVID LEWIS ENWARD MARTIN RECORDER AND CREEKE FEB TO WERFIELD RECORDER OF STRAIN OF THE HAVEN WILLIAM W JOIN R WCDILL STARF WGGURE WILLY WEVER FEED T WERFIEL CREEKE HAVE WHITE REVIORD H IN ROSSER CHARLES HORSEL FOR CONTROL OF THE WORLD WAS AND JOIN W TOTAL OF GROBE TILLY VALGINAY JOIN R WATER CANADA E W ARCHIBALD C C LARIES L CACODER W GESTEIN E J SEN JOIN E STANE HORSEL JOIN W TOTAL OF GROBE TILLY VALGINAY JOIN R WATER CANADA E W ARCHIBALD C LA KRIEN CANADA E W ARCHIBALD CANADA E W ARCHIBALD C LA KRIEN CANADA E W ARCHIBALD CANADA E W ARCHIB

GINECOLOGI AND OBSTITRICS

UNITID STATES FRANK T ANDREWS BROUSE M ANSPACE WE ASSITOR J M BALLOY CHANNING
W BARRETT HERMANS J BAIDT HEVET T BYFORD TROUMS S CULLEN EDWARD P DAVIS JOSEPH B DE
LEER ROBERT L DICKASON W A NYMAN DORAND F C DUELEY HUGG EHERATIST CRARLES E ELDRE
PATRICE L J LADO H I LEWIS FRANK WASHED
H NOBLE (RABLIS I PADDOCK REDIEV PRESENTED THE STATEMENT OF TH

GENITO URINAL PROURGERY

UNITID STYLES WILLIAM L BAUN WILLIAM T BELFIELD JOSEP LL BURFOR L W BREMERIAN III II (ABOT JURN R CAUEN CHARLES H CHEFWOOD JURN H CURNINGHAM JR FRANTER H HAUFER REART HERES E BURKEN LEVERS JR GESTAV KOLLSCHER BEANFORD LEWIS GRANVILLE MAGGOWAN LILE FORDIOT J BEYTEN SCHERE B A TROMES WILLIAM N WISHARD HOURH YOUNG ENGLISH OF ENGLISH.

CONSULTING ADITORIAL STAFF-CONTINUE

ORTHOLEDIC SURGERY

UNITED STATES L. Cremendy about Annual Alebon W. S. Raye. Albrey II Freneiro J. E. F. Cladingart. II Wannit Ober. D. Lacked W. W. Leinner. J. In. L. Latze. J. IV. Reidon. E. Raye. D. Don Selve. C. A. M. A. Macalezio F. Boye. H. Herbeyt. II Callonal. Clar. Lack. I. Stare. J. A. CLAR. Lack. Lack. I. Stare. J. A. CLAR. Lack. La

FOL ALCH ZOLOGA

UNITED STATES JAMES TO A FOR TO RECENT OF PRETTY MIRRAY HEAD HELD OF RECONDENS AND ASSESSMENT OF THE PROPERTY OF THE STATE OF THE STATE

SURCIAN OF THE TAIL

UNITED STATES I VI BE UN II D BRING VARD HI HEIFN FARMELJACKSON FRANCI LA F MILLING LIONA BE ROVINSAN JOHN I WERKS CA R D WESS IT MILLING HI WIEDER CALEA A NO. D. HERM MOORS I VOLIND. JOHN B LAWE ED. W. T. H. LEUG SPILER. SCOTLAND. SIR COMMA A BERRY A MAITLAND RAWAY.

SULCIAL OF THE LAI

UNITED STATES I WING WI DAY MAY A CLESSIVE JI MCKERN NEXALII LIDEN SIME CLESSIVE CANADA II SIBBASTE INCINCE VERMENT CHANTE SCOTTAND VIOLAN TRANTE IRPITADO SER ROBERTH WIDS

SURGITY OF THE NOSE THROAT AND MOUTH

UNITED STAIRS JOSEPH C. BECK T. MERKELE HARRIE THORAS J. HARRIS CON-ARRES JAKON. JOHN I. MACKENY GF ROET MARQUE JH. LONG ROODS MASTRALIA ANDREW J. BRADA

ABSTRACT EDITORIAL STALL

DEPARTMENT EDITORS

EUGFAL H POOL GENERU SEROER
FRINK LYNCH GYNECOLOGY
JOHN O POLAK OBSTERICS
CHINELISH FRAZIFR NYUROLOGICAL SURGERY
1 N G STIKR ABDOMINAL SURGERY
CREL N HEDBLOM CHEST SERGERY

I OUIS F SCHMIDT GENTO-URINARY SURGERY HILLIP LEWIN ORTHOPEDIC SURGERY ADOLPH HARTUNG ROWNTEE-OLOGY HAROLD I LILLI IT SURGERY OF THE I AR I W DEAN SURGERY OF THE NOSE AND THEOAT ROBERT IN INY PLASHIC AND ORAL SURGERY

GUNERAI SURGERY

UNITED STATES GIBRER CADESSON GEREADE BEARD LAMN BERNEY RAUBI B BERTMAN I DWARD BISHNOW WILLIAM A BRAID JOIN W BRENNAY JAMES B BOND FLORENCE CAPPINTS BUR TON CLARK JR GEORGE & COLLENT PALC COCONNA ALBERTS CRAWFORD NATHAN N CROIN LAW BENEC CHRIS LEO M DAMBORY AUBERT F DE GROUT J FRAND DOUGHTY CHARLES F DUBOIS CHARLES HE HAND ALBERT WITHER LOUIS F GENERE JOIN H GRANGE. CYRLI JGLASPEL ROSCOE R GRANDE PAUL W GEZLEY C O HEIDMAN RICHARD F HERNON WERLER HOON HERMAN H HUERE ROBERT H IVY LAWRENCE JACOLFS WORSH K ARM SAMILL RAW J EDWIN HARFATRICE JACOE E LEID ANATOLE KOLODNY MAAVEL E LICHTENSTEIN JOIN J MALONEY GEORGE R MCALLIFF I RAW, J WIGGOMAN HOWARD WICKNOUTH HERMAN O MCPHEETERS WILLIAM R MERKER STANLEY H MUTTER MATTICE WITHOUT STEWN J GOOGNE MATTER H NOURE JOSEPH K MARAT LOUIS NEUWRI JOHN W NUTLU A KLON OCCISIENE EMIC DIESEG AVAN L PACE WILLIAM J PICKETT E S PLAT HAVRY H RITTER EMIL CROSTERE HARRY C SALTESTEIN ANTIONY F SAVA WILLIAM E SINCALLETON ARTHUR L SERESTEIN WAS SACCHA HARRY C SALTESTEIN ANTIONY F SAVA WILLIAM E SINCALLETON ARTHUR L SERESTEIN WAS SACCHA HALRONG SPEED CALL STITLAR TO ALL STITLAR OF THE MARKET JOHN A WOLTER JOHN H WOOLSEY LEO W ZINCKERNAN CANADA ROBERT R GRAMME R A BOND HARRY L JAKOU WOND STOCKE AND CANADA ROBERT R GRAMME R A BOND HARRY LAKED WAS AND CALL STITLAR OF THE MARKET STANDARD SACCHA STANDARD AND CANADA ROBERT R GRAMME R A BOND HARRY L JAKOUN WORLD A WALTER JAKOU WOND STOCKE AND CANADA ROBERT R GRAMME R A BOND HARRY L JAKOU WOND STOCKE AND CANADA ROBERT R GRAMME R A BOND HARRY L JAKOU WOND STOCKE AND CANADA ROBERT R GRAMME R A BOND HARRY L JAKOU WOND STANDAY CANADA ROBERT R GRAMME R A BOND HARRY L JAKOU WOND STANDAY CANADA ROBERT R GRAMME R A BOND HARRY L JAKOU MOND STANDAY CANADA ROBERT R GRAMME R A BOND HARRY L JAKOU WOND STANDAY CANADA ROBERT R GRAMME R A BOND HARRY L JAKOU WOND STANDAY CANADA ROBERT R GRAMME R A BOND HARRY CANADA ROBERT R GRAMME RANDON CANADA ROBE

GINECOLOGI AND OBSTRIRICS

UNITED STATES THERE II SENSE T FLOOD BELL I I DWARD BEING W MERAHAM A BRAUER BER TON CLARE JR TOWARD I CONVELL ROLAND'S CROY CARLIH DAYS LEBERT DE GROAT CHARLES ID DUBYS HARRY WI INA. SAMELE J FORESON I H GLADEN JR PLETE GRUPPAGVINO ROBERT M GENER ALBERT W HOLMAN F L KING HARVEY B MATTHEWS LICE F MANWELL J W NEWLAND ACTIONY'S SAMELA WOODEN CH. SCHAUPFLER DOVALD G TOLLEPSON MACUUS P UNIVAS ALBERT M VOLLUMS SAMELA WOOTE

ABSTRACT I DITOKIAL STAFF-CONTINUED

GENITO LUINAKA SUKGURA

UNITED STATES MILLION J CONN. J INC. CHEFFRING JODEN S ENVISED. THOMAS F FROM HOSPY A LOUIS DAY DUODS CONN. CONFIRM L FLORE HE CLUMP D HOLDS J I'M NORMATHER. MALS OF HOLDER LAKE NAMED AND THE CLUMP D HOLDS LAKE OF STATES HOLDEN LAKE OF THE PROPERTY OF THE PROPERTY OF THE STATES OF

OKTHOPI DIC SUKGLKY

UNITED STATES IN J BORNELLE M. H. BROWN ARMY CRIEK MILLIAN A CLAR PAUL CLIONAR H. LARE DWARE ROPER'S HAND ARMINE J GETTURE CHE TRE CAV CRICKE HENDE BUTCHER CAN FIRE DE HELD HENDELLE ARMY A KINEY F SAA

THIS ICOCHEMICAL METHODS IN SURCEAL

UNITED STATES AND DEBILIARD CONTRACT A LANGE LARGE

SURCIRY OF THE TAL

UNITED STATES THE MAID ALLS LYMAS A COSP. SAMER A DURK CROSS R MCAULERY. IT HE I MCCOS. VIRGIL WESCOTT.

SURCELLY OF THE FAR

UNITED STATES JAME C BRAAFILI JR. C C. BENCH. CERER McALLIFF W. M. LATA. MAN. P. AD. R. WALTZ

SURGERY OF THE NOSE THROAT AND MOUTH

UNITED STATES JAME CHREWELL JR. LANGENCE CERT. MATHER VIFERSPILL CREEKS. IN LEGEBAN. R. SERVIT LLY. C. F. R. R. M. LLIFF. W. M. PARCY. MANTOR R. WALLE.

International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

EDITORS

FRANKLIN H MARTIN Chicago SIR BERKELEY MOYNIHAN KCMG CB, Leeds PAUL LECENE Paris

SUMNER L KOCH Abstract Editor

DEPARTMENT EDITORS

EUGENE H POOL General Surgery
FRANK W LYNCH Gynecology
JOHN O POLAN Obstetne
CHARLES H FRAZIER Neurological Surgery
F N G STARR Abdommlan Surgery
CARL A HEDBLOM Chest Surgery

LOUIS E SCHMIDT Genito-Urinary Surgery PHILIP LEWIN Orthopedic Surgery ADOLPH HARTUNG Roentgenology HAROLD I LILLIE Surgery of the Ear

HAROLD 1 LILLIE Surgery of the Ear
L. W DEAN Surgery of the Nose and Throat
ROBERT H IVY Plastic and Oral Surgery

CONTENTS

1	Index of Abstracts of Current Literature	111 VII
11	Authors	V111
Ш	Editor's Comment	1X
IV	Landmarks in Surgical Progress	13
v	Abstracts of Current Literature	4 77
VI	Bibliography of Current Literature	78 102



CONTENTS—JANUARY, 1929

LANDMARKS IN SURGICAL PROGRESS

LIGATION OF THE COMMON CAROTID-AMOS TWITCHELL ITTING S Culter If D Se D Chicago

ABSTRACTS OF CURRENT LITERATURE

ADSILACIS	OI.	COLCECTION	D. 1 D. 111 0 - 1-	-

18

	SURGERY	OF	THE	HEAD	AND	NECK
Head						

- Gioja E Vanous Methods of Repaining Wounds of the Skull and the Report of a Case of Extensive Cranioplasty by Means of an Autoplastic Osteo penosteal Flap from the Tibia
- HUET P C Recent Fractures of the Nose
 TERRACOL J O teomyelitis of the Superior Mauilla
 in the Nursing Infant
- in the Nursing Islant

 LCREL J L The Mtermath of Head Isjuries

 LEET M M Discussion—The Aftermath of Head

 Injuri s

Eye

- DUKE ELDER W S Ultraviolet Light in the Treat ment of Ophthalmic Disease
- BARKAN O Cloquet's Canal Visible in the Living, with Observations of Hamorrhage into Cloquet's Canal
- TASSMAN I 5 The Proteins of the Lens and Their Chemical Changes in the Pathogenesis of Senile Cataract

Nose and Sinuses

- GLOVER J A Some Observations on Nasopharyn geal Epidemics in Public Schools
- BROWN R G Bronchiectasis in Children The I seudo Robust Appearance in Cases Associated with Nasal Accessory Sinus Suppuration

Neck

- Mosser W. B. The Effect of Iodine and Thyroid Feeding, on the Thyroid Gland an Lyperimental Study
- DOEDERLEIN G Experimental Hyperthyroidism and Its Effect on the Reproductive Function and the Progeny
- BROWN R G Some Varieties of Skin Flaps in Connection with Cases of Total and Hemi Laryn gectom: s

SURGERY OF THE NERVOUS SYSTEM

Brain and Its Coverings Cranial Nerves

ECKEL J L The Aftermath of Head Injuries

PEET M M Discussion—The Aftermath of Head Injuries

tΛ

16

18

18

18

18

20

21

22

- RIO HORTEGA P The Histological Structure of the Pineal Gland
- HORRAX G and HAIGHT C A Study of the Reces sion of Choked Disks Following Operations for Brain Tumor
- GULEKE N The Surgical Treatment of Meningitis Following Traumata and Other Infections

Peripheral Nerves

9 PLATE H On the Peripheral Nerve Complications of Certain Fractures

Miscellaneous

BAGLEY C JR Blood in the Cerebrospinal Fluid Resultant Functional and Organic Alteration in the Central Nervous System

SURGERY OF THE CHEST

Chest Wall and Breast

TRINCA A J Abnormal Hyperplasia of the I emale Breast and Its Relation to Tumor Formation

Trachea Lungs and Pleura

- Brown R G Bronchiectasis in Children The Pseudo-Robust Appearance in Cases Associated with Aasal Accessory Sinus Suppuration
- LEE W E TUCKER G and CLERF I I ostoper ative Pulmonary Atelectasis
 - LEE W. E. RAYDIN I S. TUCKER G. and I FNDIR

 RASS. E. P. Studies on Experimental Lul

 monary Atelectasis
 - JOANNIDES M Surgery of the Lung Care of the Stump in Pneumectomy and in Lobectomy
 - HART D Acute Empyema Treatment by Con tinuous Tidal Irrigation and Drainage Depen dent on Normal Respiratory Movements

Miscellaneous

- McIlraith C H Turner W and Hicks J A B Thoracic and Abdominal Streptothrix
- 9 ALEXANDER J A Brief Survey of Thoraci Surgery

:

27

9

10

30

35

34

36

36

.18

32

39

10

41

48

42

SURGERY OF THE ABDOMEN

Gastro-Intestinal Tract

ı,

1 OLTON (The Interpretation of Castric Symp. toms I The Mechanism of the Lr shieti nel Lain II Analysis of Cases

GATEROOD W 1 GATHLER O H. MANTWALER I and Myzes V C Mkalosis in I attents with I the Ll er

Lorva J. Surgery off astri. Du slenal and Jepunal Ultr

CHERK & Chanclepts Uler 145 652.50: Two Hun fred and Twenty Six Opera

tu ns for Gastri or Duodenal Li er IANY & C The Later I esults of Partial (as

trect my RUNEN I W An Aseptic Methol of Intestinal Anastomosis

CRIMALLY ! D ut le Ulcer of the Duodenum in a latient of Iwenty Years Duoden pylorectomy

MON SERVE K W The Surgi al Treatment of Deserticultus I ARDHAM I J CHOYCE & C and RANDALL M

Diserticulass of the Appendix and I seu! myxoma I ent nei Fittson I I and Fazut on I h. Mortality

Fa tors in \cute \ppendicitis HURST & F TURNER T W and LEVABLES [] The La ly Diann six of Lancer of the Col n and

Rectum WHELER SIR W I DLC DUERS C HODGES H A G Hunst \ 1 an l Others Di u st nen the Larly D agnosis (I Car moma of the Re tum an I Col n

Liver Gall Bladder Pancreas and Spleen

I RIBRAM B O Mucoclasis and Surgery I the Biliary Fract without Drainage SHERWOOD W A Surgical Lesions of the Billians Tract

CHIRAY M and I AVEL, I How the Gall Blad ler I ills and I mpties Itself SCOTT W I M and WHITAKER I R I multion of

Its Contents as a Function of the Gall Blad ler A Clinical Application BLOND K A New Working Hypoth sis f r Clarit

cation of the t all Bladder I robl m DENER J B | He Chronic Gall Bladd r

HIFRARD I and MALLET-GUY I The I hysiolika an I Technique of Cholecystogastrostomy ILOD I S and PARKER B P Biliary Intestinal

Anastomosis for Obstructive Jaundice Analysis of 137 Consecutive Cases RETTERER L Structural and Lyclutive Variations in the I ancreas Iluring I asting After Irans

plantation and After Pesection of the Lucret ry Ducts Trectson L & and Presentry J T The R la

tion of Gall Blad fer Disease to Pregnancy

Miscellaneous

CRAITAM I A Some Lunctional Tests and Their Significance

GYNECOLOGY

41

41

45

43

47

45

50

(Lauss)

Uterus

BARRORS D N The Olshausen Operation I r Retroversion of the Uterus Runts I C The Diagnosti Use of Intra Lienne

Judized Od Injection Combined with the & Rays as Compared with Legatenne CO, Insuffato n 25 1 Stuly Breed on Sixty Six Cases of Fulal Obstruct on 25

Dickres in R. I. Rebellious Cervitus from Cysts. Illub in the Canal Heren II I and Corers If The K Lith n be

tween Structure and I roamous in Cervi al Ca cinoma under Radiation freatm nt. 1 MK C T The Management of Uterine Mala.

nan jes at the Ra frum Institute of the Univ r sits of Paris COT D M and Beviscurk M L Mi d Tumors of the Cervix Lteri Sarcoma Botts ides,

with a Rep rt of Tw > Cases

External Genitalia

(URLOCK 1 II The (ute of an Intra table Vesico salinal fistula by the Lee fall edicled Mu cle 32 The a New Concept

33 Miscellaneous

Peter Devenus I Lontoluli ns on Rent genal gy of the I class

Meios J V Ralumanilis Use in Cyneology Mor r A II and I reay I II \ Diffuse P lvic I ad m tri ma Constri tin the Ureters

OBSTETRICS

Prernancy and Its Complications Tirus P and Dopt's I The I tiol escal 5 mil can e of I were ! Blood Sugar Values in the

Comiting of Legnancy Ivens I Latest Sepsis in I regnancy Tovernia 38 JERGISON L K, and PRIESTLEY J T The Rela

tion of (all Bla ider Disea e to I regnance

Labor and Its Complications Mitter D. Unsucces ful For ep. Ca.

t on Management and Lnd Result His tony J How Far Can U successful I reeps Cases Be I revented by I fit tent ant natal

Care Sitsw W F Unsucce sful Forceps C e Need for a Higher Stan lard

40 NATHENSON J N The Anatomy (nest Chinical Considerations of Placenta 1 r ta

Puerperium and Its Complications SHERMAN W O . Uterine Sterilization

Miscellaneous

I an rimental Hyperthyr ill sm DOFDERLEIN G and Its Effect on the Reproductive lun ! ! and I rogeny

52

5

53

53

54

7

56

56

60

60

Velson E L and larree G L The Present Status of the Ergot Question with Particular Reference to the Prepatations Used in Obstetrics and Gynecology

CHAPPAZ G Comparative Serolo ical Studies of th Blood of the Cord and of the Retroplacental Blood

GENITO URINARY SURGERY

Adrenal Kidney and Ureter

PARIN E

Morse \ H and Perry I H A Diffuse Pelvi Findometrioma Constricting the Ureters

DAVIS J F Th Surgical Pathology of Malforma tions in th Kidneys and Ureter

CHEVASOU M The Study of Hydronephroses by Ureterography

nephrosi
Dick B M Staphylococcal Suppurative Aephritis

Conservative Operations for Hydro

(Carbuncle of the Aidney)
ANDRÉN G Contribution on the Pyelographic

Dia_nosis of Renal Tuberculosis
GRUBER C. M. The Penstalti and Antipers taltic
Movements in Fycised Ureters as Afficted by
Drug

CIBERT J Cysti Dilatation of the Ureter Strangulated at the Urethral Meatus

HUNNER G. L. Calculus of the Upper Unnary Tract
Treated by New Method End Results

LOLEY F. E. B. Uretero-Ureterostomy as Applied to

Obstructions of the Duphcated Upper Unnary Tract

Kidd I The Stump of the Ureter After Nephrec tomy The Indications for Primary Nephro Ureterectomy

Wischnewsky A W. My Method of Infiltration Anæsthesia for Kidney Surgery

Bladder Urethra and Penis

GARLOCK J H The Cure of an Intra table Vesko vaginal Fistula by the Use of a Pedicled Muscle Flap a New Concept

COELVAN L Muciparous Glands in the Mucosa of the Urinary Bladder Mor on A C Ob ervation, on the Ra hum Treat

ment of Vesi al Cartinoma Mouar T B Urethral Diverticula

KIDD I MILICAN E T C WARD R O WARD

1 and Other D scussion Regarding the Treat
ment of Urethral Stricture and Tistulæ by
1 tossion

ΓCER Γ Perostitis and O teitis of the Symphysis and Rami of the Pubis Following Suprapubic Cystotomic

Genital Organs

I r. $\Gamma_{\text{UR}} \ R$. Operative Treatment of an Ab cess of the Pro tate

Miscellaneous
Lisendratu D \ \ \ \ \nuna

SURGERY OF THE BONES JOINTS MUSCLES, TENDONS

Coley W B The Differential Diagnosis of

Sarcoma of the Long Bones 62

IERICHE R The Problem of Osteo Articular
Diseases of Va omotor Origin Hydrarthrosis
and Transmatic Arthritis Gene 1 and Treatment 63

and Traumatic Arthriti Gene 1 and Treatment
Minning k Lipoma of the Tendon Sheaths

61

65

65

67

61

68

68

60

60

,0

48

51

, I

BARANGER J Two Cases of Acute Osteomyelitis of the Spine 64 HOLM H Vertebral Tumors 64

COTTON A Guant Cell Tumor of the Spine with the Report of a Case

BEER C Periostitis and Osteitis of the Symphysis and Rami of the Pubi Following Suprapubic Cystotomies

52 Heverson M S Giant Cell Tumor Involving the Upper End of the Femur Report of Three Cases

Fractures and Dislocations

PLATE H On the Peripheral Nerve Compli ations of Certain Fractures

LIVINSAY M. K. Relaxed Motion in Fracture Treat ment. A Preliminary Report. 66 SCUDDER C. The Operative Treatment of Recent

Fractures

53 Gener E S and Hinney M O Dislocations and

Simple I racture of the Elbow

ROTH P B Tracture of the Spine of the Tibia

CALDWELL G A A Portable Frame for the Suspen sion and Traction of Fractures of the Lower

Lxtremity

SURGERY OF BLOOD AND LYMPH SYSTEMS Blood Ve sels

I EARSE H E JR An Experimental Study of
Artenal Collateral Circulation
GERARDIER J DE and STRICKER P An Early

Thrombosis of the Bifurcation of the Aorta The
Importance of Surgical Exploration of the Bifur
atton in Establishing the Differential Dia, nosis
in Certain Types of Obliterative Arteriti and

Determining the Choice of Treatment
Leibovici R Remarks on the D agnosis and Treat
ment of Gang ene Due to Obliteratin, Arteritis
in th Adult

Blood Transfusion

63 Trrus P and Dones P The Etiological Significance of Lowered Blood Sugar Values in the Vomiting of Pregnancy

CHAPPAZ G Comparative Serological Studies of the Blood of the Cord and of the Retroplacental Blood

MATTHENS II B and MAZZOLA V P Observations on the B ochemical Changes in the Blood I ollowing Radium Therapy

SURGICAL TECHNIQUE	Radium
Operative Surgery and Technique Postoperative Treatment	HEALY W. P. and CUTER M. The Relation between Structure and Prognosis in Cerrical Carrinoma under Radiation Treatment
I EE W. I. TICKER G. and CLERF L. Post operative Pulmonary Melectasis 18	PACE G T The Management of Utenne Malig nancies at the Radum Institute of the Univer
IEE W. I. RAVDIN I.S. TLCKER C. and PENDER GRANS L. I. Studies on Lag enmental Pulmo	sity of I ans 44
nary Atelectasis 18	MEIOS, J \ Ra hum and Its Use in Gynecology 46 MORSON \ C Observations on the Radium Treat
RANKEY F W An Aseptic Method of Intestinal Ana tomosis 20	ment of Vesical Carcinoma 53
HARRIS R I and STODDART W O A Simple to	MATTHEWS II B and Marzota V 1 Observa- tions on the Biochemical Changes in the Blood

43

41

71

paratus for the Continuous Intravenous Ad mini tration of I hysiol er al Salt Solution

u

Anasthesis

HADRIELD C.F. SHIPWAY I F DALY A THOMAS I k and Others Discussion on Late Lither f onvulsions WINCHNEWSKY A W My Method of Infiltration

An esthesia for Kilney Surgery

PHYSICOCHEMICAL METHODS IN SURGERY

Roentgenology Runs I C The Diagnostic Use of Intra Uterine Induzed Oil Injection Combined with the X Rays as Compared with Lerutenne CO: Insufflation A Study Based on Sixty Six Case of Fubal O! struction

LETIT DUTAILLIS 1 Contributions on Roent genol gy of the Pelvis CHENAS U M The Study of Hydronephroses by Ureterography

ANDREN G Contribution on the Pyelographic Dia nosis of Renal Tubercub sis LACKARD C A Comparison of the Quantitative Bix Descal I ffects of Camma and L Rays

following Rad um Therapy LARLEA G Desira of a Well Protected Radium l ack Miscellaneous

DURE I LDER W S Ultra solet Landt in the Treat ment of Or hthalmic Disease MISCELLANEOUS

76

1

Clinical Entities - General Physiological Conditions HEIRAN I Implantat n of Rat Carcinoma and sa coma within Heni n Libro- iden ma

General Bacterial Protozoan, and Parasitic Infections DURNIE G. Hist long all orms of Internal Human Mycoses

Ductless Glands Rio Horrega 1 The Histoly acal Structure of the

Lineal Gland 52 Hospitals Medical Education and History 53

PARKER G The Early Dev I pment of Hospitals (Bef re 1343)

Genito Urinary Surgery

BIBLIOGRAPHY

Suggests of the Head and Neck

Dargery of the recta and a			
Head	78	Adrenal Lidney and Ureter	94
Tye .	78	Bladder Urethra and Penis	94
Lar	79	Gental Organs	95
Nose and Sinuses	79	Viscellaneous	95
Mouth	80		
Pharynx	80	Surgery of the Bones Joints Muscles Tendon:	š
\eck	80	Conditions of the Bones Joints Muscles Tendons	
Surgery of the Nervous System		Etc	91
	_	Surgery of the Bones Joints Muscles Tendons	,,
Brain and Its Coverings Cranial Nerves	8r	Etc	97
Spinal Cord and Its Coverings	82	Fractures and Dislocations	
Penpheral Nerves	82	Orthopedics in General	97 98
Sympathetic Nerves	82		•
Miscellaneous	83	Surgery of the Blood and Lymph Systems	
Surgery of the Chest		Blood Vessels	98
	82	Blood Transfusion	90
Chest Wall and Breast		Lymph Vessels and Glands	99
Trachea Lungs and Pleura Heart and Pericardium	83 83 93	Mysispin vessets and Otanus	99
Esophagus and Mediastinum	93	Surgical Technique	
Viscellaneous	84		
Wateriancona	0.3	Operative Surgery and Technique Postoperative	
Surgery of the Abdomen		Treatment	99
Abdominal Wall and Peritoneum	84	Antiseptic Surgery Treatment of Wounds and	
Gastro Intestinal Tract		Infections	100
Liver Gall Bladder Pancreas and Spleen	84 86	Anæsthesia	100
Viscellaneous	88	Surgical Instruments and Apparatus	100
	-	************	
Gynecology		Physicochemical Methods in Surgery	
Uterus	88	Roentgenology	101
Adnexal and Penuterine Conditions	80	Radium	101
Fxternal Genitalia	80	Miscellaneous	101
Miscellaneous	99		
A		Miscellaneous	
Obstetrics		Clinical Entities-General Physiological Conditions	101
Pregnancy and Its Complications	90	General Bacterial Protozoan and Parasitic Infec	
Labor and Its Complications	92	tions	101
I uerperium and Its Complications	93	Ductless Glands	102
Newborn Miscellaneous	93	Surgical Pathology and Dia nosis	10
varscenaneous	93	Hospitals Medical Education and History	102

SURGICAL TECHNIQUE	Radium
Optrative Surgery and Technoque II Treatment (LE W I' Trexes G, and CLEAR L operative Fulmonary Archettasis LEE W I. REVIN IS TICKER G and I many Archetasis RANKEN I W In Asoptic Method of In Anardomo is Ileasts R I and Stromburt W O A Sim- paratus for the Continuous Intraveir- ministrative of Prave Ingent Salt Solut ministrative of Prave Ingent Salt Solut	TABLE A THE NAME OF THE NAME O

43

Anæsthesia

HADTELD C I SHIPWAY I I DALY A THOMAS I k and Others Discussion on Late Fther Convulsions WINCHNEWSEN A W My Method of Infiltration

An esthesia for Lidney Surgery

PHYSICOCHEMICAL METHODS IN SURGERY

Roentgenology

REBIN I C The Dia nostic Use of Intra Utenne Iodized Oil Injection Combined with the \ Rays as Compared with I eruterine CO2 Insufflation 1 Study Based on Sixty Six Cases of Tubal Ob

struction LETT DUTAILLIS P Contributions on Locat genology of the I el 1s

LIEVASSU M The Study of Hydronephroses by Ureterography

ANDRÉN G Contribution on the Pyel graph: Diagnosis of Renal Tubercul ses I ACKARD C A Comparison of the Quantitative Bio

53 logical I'll cis of Gamma and & Rays 74

43

5,

FAILLA G Design of a Well Protected Radium lak

Miscellaneous DI RE ELDER W S Ultraviolet Light in the Treat ment of Ophthalmic Disease

MISCELLANEOUS

Clinical Entities - General Physiological Conditions HERMAN J Implantate n of Rat Carcinoma and Sarcoma within Benirn I ibro- Idenoma

General Bacterial Protozoan, and Parasitic Infections DURANTE G Histological Lorins of Internal Human Mycoses

Ductless Glands 45

RIO HORTEGA P The Histolo scal Structure of the 52 Pineal Cland

Hospitals Medical Education and History

PARKER G The Early Development of Hospitals (Before 2349)

BIBLIOGRAPHY

Surgery of the Head and Neck	Genito Urinary Surgery			
lead.	78	Adrenal Lidney and Uret r	9	
ive	78	Bladder Urethra and Penis	9	
ar	79	Genital Organs	9	
Nose and Sinuses	79	Miscellaneous	9	
Mouth	86			
Pharynx	80	Surgery of the Bones Joints Muscles Tendon	5	
\eck	80	Conditions of the Bones Joints Muscles Tendons		
		Etc.	Q	
Surgery of the Nervous System		Surgery of the Bones Joints Muscles Tendons	٠,	
Brain and Its Coverings Cranial Nerves	81	Etc	9	
Spinal Cord and Its Coverings	82	Fractures and Dislocations	ő	
Penpheral Nerves	82	Orthopedics in General	ó	
Sympathetic Nerves	82		•	
Miscellaneous	82	Surgery of the Blood and Lymph Systems		
Surgery of the Chest		Blood Vesyels	0	
Chest Wall and Breast	82	Blood Transfusion	9	
Trachea Lungs and Pleura	83	Lymph Vessels and Glands	9	
Heart and Pencardium	9,			
(Esophagus and Mediastinum	83	Surgical Technique		
Viscellaneous	84	Operative Surgery and Technique Postoperative		
		Treatment	9	
Surgery of the Abdomen		Antiseptic Surgery Treatment of Wounds and	•	
Abdominal Wall and Peritoneum	84	Infections	10	
Gastro Intestinal Tract	84	Angesthesia	10	
Liver Gall Bladder Pancreas and Spleen Miscellaneous	86 88	Surgical Instruments and Apparatus	10	
чизсенапеорз	88			
Gynecology		Physicochemical Methods in Surgery		
Uterus	88	Roentgen logy	10	
Adnetal and I eriuterine Conditions	80	Radium	10	
External Genitalia	8g	Miscellaneous	10	
Miscellaneous	gó	·		
Obstetrics		Miscellaneous		
		Chinical Entities-General Physiological Conditions	10	
I regnancy and Its Complications	90	General Bacterial Protozoan and Larasitic Infec		
Labor and Its Complications I uerperium and Its Complications	92	tions Ductless Glands	10	
Newborn	93		10	
Miscellaneous	93	Surgical Pathology and Diagnosis Hospital Medical Education and History	10	

AUTHORS

OF THE ARTICLES ABSTRACTED IN THIS NUMBER

Mexander J 22 Andrén (53 Bagley C Jr 16 Baranger J (4 Harkan, () 6 Barrows D \ 43 Beer I 65 Benischek W I 45 Bérard I 40 Bland K 30 Bolton C 23 Brown R C 8 18 Caldwell C A os Chappaz (5t Chevas u W 5z Chiray W 38 Choy e C C 32 Cibert J 53 Clert L 14 Ciffey J C 27 Coley W B 62 Cotton 1 (Cor D 11 45 Cutter I 5 t Daly 1 72 Davis J F 52 Deaver J B 30 Dick B M 33 Dickinson R I 43 Dolds P 48 Dord rl in G Duke Llder W S c Dukes C 34 Durante ((Lckel I L o

led lmsn 1 55 I rsendrath D N 60 Juli F 9 40 kt ld 1 54 50 Illaton I L 33 Lake N C 28 Failla (74 Fergusin I K 33 48 1013 F I B 54 (ael ler O II 25 Lee 11 1 15 le Fur I 60 Leibovi i R a Jen be R 61 liniav M L 66 Wall t Cuy I 40 Mannini K 61 (cust I 5 67 Matthews II B : Cipa L 4 Cirardier J de 60 Clover J 6 Craham I 1 42 Mazsola V I I McIlratth C H 21 Meiga J V at Miller D 48 Milligan F T C 56 (nmault 1 30 (ruber C M 53 Guleke N 10 Monsarrat K W jo Morse VII 47 Morson V (55 Mos er W B 6 Mouat T B 57 Hadreld C I 2 Haight L 10 Harns R. I Muntwyl r C 25 Myers V C 25 Nathansin J N 50 Hart D 20 Henly W I 43 Hesman J 6 Henderson M 5 6 Net n I I 51 Iak (T 44 Ja kard C . lapin l 52 Larker B K 40 Holm II, 64 Parker C Horrer (10
Horrer (10
Huet I C 4
Hunner C L 53
Hurst \ F 33 34
Ivens I 48
Joannides \ I 10 Pattee C 1 si Pattee () 31
Pavel f j8
Pearse H E Jr 69
Peet M M 9
lend rata i 1 18
Perry I H 4

I latt II 15 I oha J 26 I nbram B O 16 I riestky J T 48 Randall VI 12 Rankin F W 1) Ravd n I S 18 Retterer L 41 Rio Hortega I o I oth P B 68 Rulin I C 43 Scott W J M 35 Sudler C 67 Shaw W I 49 Sherman W O \ 50 Sherwood 36 Shipway F F Stoddart W O z Tanasesco 2 Ta sman I S (Terracol J 4 Thomas L K 2 Titus P 48 Trinca A J 15 Tucker (18 Turner T W 13 Turner W 21 \enabla] 1 13 Ward 1 50 Ward R O 56 Wheeler 5 r W 1 d C 34 Whitaker L R 38 Wis hnewsky A W

Petit Dutaillis P s.

EDITOR'S COMMENT

NUMBER of unusually interesting and im portant papers concerning various patho logical conditions in the gastro intestinal tract are reviewed in this month's issue of the INTERNATIONAL ABSTRACT OF SURGERY Hurst Turner and Venables clear cut presentation of the disease picture of cancer of the colon in its early stages (p 33) emphasizes live symptoms as being constantly present-abdominal discom fort or pain and a change in the habitual action of the bowels A symptom of particular signifi cance is the presence of a colicky pain which dis appears with a gurgle which can be seen and felt The presence of the first two symptoms suggests at once the necessity for a careful search for blood In the authors experience occult blood is present in almost all specimens in every case of cancer of the stomach and cancer of the colon it is found rarely in uncomplicated cases of diverticulitis and never in constitution of diarrhora unaccompanied by organic disease

In a discussion of the same subject before the Royal Society of Medicine (p. 34) Wheeler calls attention to the fact that carcinoma of the colon can cause dyspeptic symptoms-painful peri stalsis of the colon or pylonic spism immediately after taking food-and thereby lead the surgeon to concentrate his attention on the upper abdomen with the result that a colonic growth which might be detected by the sigmoidoscope is overlooked. He advises palpation with the patient in the erect position while searching for growths in the hepatic and splenic flexures. In the rountgenographic search for tumors of the bowel Hodgson (p 34) recommends the use of the dual exposure. He states that the normal bowel will give a double shadow because of the double peristaltic wave but in the discased area there will be but one shadow because peristalsis is absent in this area

Monsarrat's comprehensive discussion on the surgical treatment of discriticultis (p 30) Bol ton's thoughtful consideration of the interpretation of gastine symptoms with particular

reference to pain (p. 23), the study of Gatewood and his associates on the development of alkalosis in patients undergoing treatment for peptic ulce (p. 23), and Judd and Parkers analysis of 137 cases in which anastomosis between the linkary and intestinal tracts was established be cause of obstructive jaundice (p. 40) are a few other of the many interesting papers concerning surgery of the gastro intestinal tract in this month is size.

A second subject particularly emphasized in this month a issue by reason of the many helpful and stimulating contributions which concern it is that of tumors and diseases of bone. Coley's discussion of the differential diagnosis of sarcoma of the long bones (p 62) and the reports of Hender son of three cases of giant-cell tumor of the upper end of the femur (p 65) of Cotton of a case of grant cell tumor of the spine (p 65) and of Baranger of two cases of acute osteomy elitis of the spine (p 64) are of more than usual interest Coley does not oppose diagnostic bionsy of a bone tumor if a positive diagnosis cannot be made clinically. He believes however it should consist in a complete and thorough curettage down to healthy bone. He emphasizes the difficulty of differentiating certain types of bone tumor from the clinical and roentgenological findings alonenotably in cases of endothelioma and giant cell tumors-and points out the possibility that a chronic osteomyelitis (which may be difficult to differentiate from sarcoma) may exist primarily as an inflammatory process and later become malignant

Gulke's review of the indications for, and the results of sugical treatment of supportive meningitis (p 10). Bagley's experimental study of the effects of blood in the cerebrospinal fluid (p 16). Plutts discussion of peripheral nerve complications following certain fractures (p 15) and McIlraith Turner, and Hicks interesting report of a streptother infection of the abotten and chest (p 21) are a few of many other abstracts desering careful reading.

Aur 11-G maket Hound of the Foot and Jack-Ligal re of the Caroled Arlery

That Example is the Equation of the most of the most they of Greats — First Edward paper was pet fair in the d by D. T. ich II of Kee. N. H. and i my respect pero some top M. h. it was granted to me. I forward it for interest in you. Lorn. L. G. C. S. Ja.

Denny a mock fight, it a representativency in Temple in New Humsher. In the fifth October 1989 J. No. Terrest. C. St. 10.

cavalry sold or set, 20 years, roc red wound (supposed to he bee to sed by th dd g and burning powder from pust if a

barged pour him) on the ght d of the neck and face tend g from behind obliquely forward into the mouth. If was immed tele con yed to public boose where I she request of Dr Crimbie th augro to b regen t, I assisted in the m t dressing of the w d d subleque tly took harge f th cam-We found the whole I the right of the head face I perk ory m h bu med and large wound per trating the phary mouth by which we re des royed, or gro ly inc ested nearly the whole f the paroted gland the temporal masseter of parrygreat Oc 18 b-(T dy after m; 7) The word had ow become learns of 11 deed portions f muscle of cell lar membrane nd prese d le gé circ les perture foin 1 i three us ber dameter i the bottom of h h might be discincily see the inte feer 1 d rie y d uded from near the b furcati f he con mo tru k to prhere it form earns to enter the canel i the petron portion fill tempor I be Drectly ope the curv of the sry mucht be see durk orek of his or t in diameter which see of the dead tout of I is membrane die at th on fithe ressel. I caref By touched I with probe biffind g the it discend I die ted from the tempt t pressed to the pate I ad h friend my fears of dange on if I fatal hemorrhag who thit I ld sep re I ppled th to al

d energy left the room d as bou les gib house her some as fibe fam ly cred this be bleed g I bit ed bak to he room and found hand | ged blood The dess gow re immediat by rem ed dill blood jet ed for bly 5 large tree I the dutance I thre or four fr With the th mb I per left hand I to t tly on pressed to rt y gu tith base fith & Il s d hus if tually ontrolled th h m hee Th pats t had fu d daftee or tw ty tee h d lapsed bef re h w ed th t I dured to m k any Hempt I see in the arsom h ser Th till keep gil thimb firely pessed til fie I proceeded to be the would from blood and he g done the I n fth armed an so whise speld ward to gith at I to more he an och below the polymbre the 1 mal If which as tated by had bee destr yed t bran bw g

the tens of the layer. If may be a scale of a liberty I depends on the moders of the parents report the action of the woods with h he ded parely. In a look and occasionally m is left layer. At left gap the Layer of descripts and parely h is a left gap of the h did of the earlyst l isocomoled an experiment of energy h is a construct of an exterpt of our and whom or of change pay factor scale l. The energy h is the contract of the scale h is the contract of h is the contract of h in the layer h is a function h is a function of h is a function h in the layer h in the layer h is a function h in the layer h in the layer h is a function h in the layer h in the layer h is a function h in the layer h is a function h in the layer h is a h in the layer h is a function h in the layer h is a function h in the layer h is a h in the layer h in the layer h in the layer h is a h in the layer h in the layer h in the layer h is a h in the layer h is a h in the layer h in the la

I removed my the mb and sponged y the blood not doubting th t th hemorrhage wa fleets lly con rolled. But to my surprise and dispropriation. the blood mined tely been to one from the rupture the serve and less the term test of service the pulse gart. I compressed it again with my th mb ind begun to deeps of as a pry pa ent Whif h ould I d ? I was unpossible t pply light reals the order compression then w the only lern to e How was that he flocked? fit id some one at by the petient oil compers the artery constabily w h the figure th adde as hould tak plac Possibly htmght have been done but I resolved t max another thempt first. Raui g my th mb I placed sorall proce f dry speege d rectly ver th onfic in the ... a deeper g the compression till little larger pece of peage could be prepared I placed that po the first; and on w t promog the gradually larged pieces oblipsely pward d backward ga not th base fit at I I I I had filled th wound w h firm some of poage th buse of which projected t hree h to ally The I paled E ea offer sa such m ner to press firmly pon the punge; pass git in repeated t m tho h d fac and neck I d rected that the pa t should be placed us bed with his head mod raily raised of thit hill his a but of the possible of sub-prise ry feet ic, he ha gipot tith to be ween here and fou pounds

occasionally some broth. W ref lly w iched b m through the

nel but bled ene med do on play and for till may

h was II ed Itil w dwate and

Facsimil excerpts from Amos T michell's report — Yes E plant Quarterly Journal of Med. Buston 1843

fill sof by tm

INTERNATIONAL ABSTRACT OF SURGERY

TANUARY 1929

LANDMARKS IN SURGICAL PROGRESS

BY IRVING S CUTTER M.D. Sc.D. CHICAGO Dean Northwestern Luive sity Medical S 5 of

LIGATION OF THE COMMON CAROTID-AMOS TWITCHELL

10 operative surgery the science of medicine is in debted for many early demonstrations of physiological truths For centuries interfer ence with the circulation to the brain was considered inconsist ent with the preservation of brain function and it was not until the latter half of the eacht centh century that observations began to accumulate proving that the function of the brain may be normal following ligation of one of the caratids

Petit1 describes the case of a patient with an aneurism at the bifurcation of the right carotid

which had undergone spontaneous cure. The patient died of anoplexy seven years afterwards and at autopsy the carotid artery and the tumor sac were found obliterated. He says

Enfin a la place de la tumeur ci dessus decrite il se trouvait un nœud dur oblong gros comme le noyau d une olive et qui n avait aucune cavite a l'interieur Hebenstreit2 in his translation of Benjamin

Bell's work on surgery mentions a case in which

t Be im Gottl b H benstr 1 758 8 ; Be ; Bell Abbandl ng



AMOS TWITCHELL

in a cadaver at the Windmill Street School an old aneurism of the right carotid which had be come completely filled with an organized coagulum He says There was no part of it which had the appearance of being re

the carotid artery was wounded

during an operation for the re-

moval of a tumor The operat

ing surgeon immediately tied

the vessel and the patient lived

Matthew Baillie in 1789 found

for many years thereafter

cently formed and there cannot be any doubt of its having existed for a considerable time before the man's death The whole cavity being filled up with the coagulum there was no cir

culation whatever Baillie's article is illustrated with a plate showing the carotid tumor completely filled with organized coagulum

Abernethys John Hunter's pupil and his suc cessor in London ligated the common carotid for hemorrhage in 1708 The natient had been gored by an ox and Abernethy first attempted to ligate the superficial vessels. Finding that the blood still

Il 76 8 J pup I t the Wasdmill Str t School William and J ha H t First E glish pathologist I h Abern thy 754 33

flowed he was compelled to tie the common ca rotid. The patient did not survive and Abernethy reports that the brain was affected. His report says

Finding that the moment I remitted the pressure on the carotid the blood gushed out from so many orifices and in such a torrent from the bottom of the wound I resolved to pass a ligature round the trunk of the caroti fat the part where I had been compres sing it and which was about an inch below its divi This ligature I thought mucht be made to serve as the tourniquet in amountation for I could with it compress the artery so as to prevent the wounded parts becoming obscured by blood, and by slackening it I might gain information with regard to the situation of the runtured vessels attempting to secure the carotid arters. I passe I tehind it in the manner de cribed a blunt hook with an eve in the point and having previously introduced a ligature into it I drew back the instrument and thus enclosed the artery When I compressed the vessel by tightening the knot of the lighture. I did it slowly and with a watchful attention to the sufferings of the patient. But the compression of the ligature did not seem to make the least difference in the gen eral state of the patient whilst it completely prevented the further effusion of blood

The patient died approximately thirty hours after the application of the ligature and in decribing the postmortem findings. Mernethy reports that

the brain appeared to have suffered a consider able decree of inflammation. The vessels of the mamater appeared as if they were injected an lin many places upon the surface of the convolutions of the cerebrum there even seemed an effusion of blood producing that appearance usually termed as bloodshot I here was a very considerable denosition of gelatin ous substance between the tuni a arachnoidea and the pia mater The vessels pissing through the sub stance of the brain though fuller than common were not particularly turgid. A considerable quantity of water of a light brown colour and lightly turbil appearance was found in the ventricles whilst the firmness of the sides of those cavities sufficiently in dicated that the collection had not preceded the accident

A Mr Fleming a British naval surgeon tied the common carotid in 1803 in a patient who had attempted suicide. This patient survived?

On November 1 1805 Sir Astley Cooper 1,68 1841 operated for aneursm of the carotid The patient died but Looper did not give up hope that the operation under favorable circumstances might be performed. He was obliged to wait until the successful and brilliant result of a second operation in 1808 proved the fersibility of tying this sessed with safety?

Mason I Cogswell of Hartford Connection to extra the case of a Mrs L— of Lebanon Connecticut age thirty-eight from whom he removed in November 1803 an extensive tumor involving the left side of her neck extending from the ear to the junction of the clavicle with the sternum. In describing this operation Cogswell says.

I commenced the operation by a crucial incision

and after separating the skin for there was nothing but skin to separate I had to proceed through even part of the operation with the utmost caution if the external appearance was unequal the internal was much more so its processes extending themselves beneath almost every muscle and tendon in the neck hence the extreme difficulty and danger attending the operation and hence the fedious length of an hour to which it was extended After dissecting around the tumour nearly to its ba t I called the attention of the gentlemen to the situation of the caroted artery and on a careful examination we found it completely enveloped by the tumour I immediately laid it bare encircled it with a broad ilat lighture tied and divided it about half an inch from the knot. The remaining part of the operation was finished as speedily as was consistent with the safety of our patient and with but little hemorrhage and though extremely feeble she was not laint On the oth day from the operation when every thing was doing well a slight hemorrhage com menced from one of the anastomosing arteries under the forepart of the jan which in all probability the slightest compression would have controlled Dr Watsons resided three miles from her and the mes senger had to extend his ride six miles further before finding him and although the hemorrhage was mod erate yet so much time had elasped before the arrival of the Doctor that the loss of blood was more than she could sustain in her feeble state and ste die In short time after The circumstances attending this case were such as entirely to establish the practicability and safety of dividing the carotil arter) on the living subje t *

Amos Twitchell who had graduated in medicine under Nathan Smith' at Dartmouth was called upon in Octobar 1'807 during his second year of medical practice to ligate the common carolid for secondra's homorrhage. Twitchell was twenty six years of age at the time and had been passing through a savere structure period of medical

that the operation under favorable circumstances

Substituting 15 3 D N w England Journal 1

Substituting 15 3 D N w England Journal 1

Must Debugger 15 1 Substituting 15 3 D N w England Journal 1

Must Debugger 15 Substituting 15 Substit

practice at Norwich Vermont Encouraged by his mentor to persevere he had decided to move to Marthorough New Hampshire when he was called to attend what provide to be his most fa mous case. His report was not published until 1843 when it appeared in the first volume of the short lived. New England Quarterly Journal of Medicine and Surgery. I "Nutchell's report was sent to the editors of the Journal by George C. Shattuck Jr. the son of George Cheyne Shattuck M.D., who had been a schoolmate of I'witchell's ast Dartmouth.

Twitchell according to his own statement was ignorant of antecedent ligations of the carotid. The general voice of surgery was against such a procedure. Had he read the report of Aberneth's case he could have held but little hope for his patient's recovery. This report typifies the re-

sourceful young surgeon who was willing to con travene accepted surgical principles in the hope that life might be preserved. The report itself is modest in the extreme. Subsequent to the ligation Twitchell is patient made an uneventful recovery

Amos Twitchell was born April 14 1781 in the shadow of old Monadnock Mountain of the Great Spirit The village of his birth Dublin nestles among the beautiful hills of southern New Hampshire In 1708 when seventeen years of age he entered Dartmouth College graduating A B in 180 AM and MB in 1805 After two years of practice at Norwich Vermont, he removed to Marlborough New Hampshire thence in 1810 to Keene New Hampshire where his death occurred May 6 1850 He was easily the leading surgeon in middle New England performing all of the major surgical operations of the day noted for his modesty his quiet home life and his intense devotion to surgery Numerous calls to accept professorships in medical schools were declined because of his active practice Among his surgical achievements may be mentioned trephining of the tibia for abscess in the bone 3

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Gloia F Various Methods of Renairing Wounds of the Skull and the Report of a Lise of Ly tensive Cranioplasty by Means of an Auto-plastic Osteoperiosteal Flap from the Tibia (Uno guardo ai vari procedimenti di otturazione di brecce craniche e con i lezazioni intorno ad un caso di estesa cranioplastica mediante innesto osteo periosteo autot lastico di tibia) Arch ifal di chir 1028 271 257

Giora first reviews the literature on cramonlasts Defects in the bones of the skull have been repaired with metallic plates ivory celluloid rubber dead sterilized bone decalcified bone calcium pastes cartilage and esteoplastic flans. The heat results have been obtained by autoniastic hone grafting

The case reported by the author was that of a man thirty two years of age who sustained a fracture of the skull and an injury of the cerebral cortex involving the speech center as the result of being struck in the left temporopanetal region by the handle of a piece of machinery. The mentgenogram showed an extensive fracture with bits of bone buried in the bone cortex. On account of objections to surgical intervention on the part of the patient's family operation was delayed until nine days after the accident. The nationt was then appretic and wound healing had begun In the first operation the margins of the wound were freshene I and the bone fragments remove I from the brain. Five days later the opening in the skull was repaire I with an osteo periosteal flap from the tibra. The operations were performed under novocain anasthesia and complaint of pain was made only when the periosteum was

Six months after the operation the patient showed some aphasia and slight paresis of the inferior facial and hypoglossal nerves. The aphasia was decreis ing however and he had returned to his work

In discussing loss of substance of the skull before the Public Health Service Tuffier Faure and Morestin agreed that persons subjected to cranioplasty rarely recover completely normal function and are therefore entitled to some compensation. They agreed also that it is often impossible to tell the exact degree of the bone lesion for one or more years after the operation AUDREY C MORGAY M D

Huet P C Recent Fractures of the Nose (Fra tures récentes du nes) J de chir 1928 xen 649

Three pathogromonic signs of fracture of the nose are nasal deformity traumatic subcutaneous em physema of the nose and hamatoms of the septum

The object of treatment of pasal fractures is to restore not only the form of the nose but also the permeability of the fosse. The treatment must be given early because fractures of the nose become consolidated in from five to ten days. Unneces an pressure on the delicate mucous membrane must be avoided As a rule reduction of the fracture and tamponing are sufficient. If the mucous membrane has been torn the nasal fossie must be kept under observation after the removal of the tampon If adhesions form they should be destroyed by dia thermic coamilation as they may un lergo cu atricial retraction and deform the lin lee of the nose or inter fere with permeability. In cases of fracture associate I with marked displacement and especially those with furntion of the oundrangular cartilage the fixtion must be maintained for some time When tamponing alone is maintained for a long time it tends to spread the vault and wilen the bad e of the nose. This ten tency must therefore be overcome by the use of some form of external fixation in addition to the tampon The author employs a simple api artius resembling a saddle of copper whi h fits over the nose and is kept in place by a band of ad hesive tape applied horizontally and another ban! applied vertically from the forehead. A thin layer of cotton is placed beneath it to protect the skin Martin prefers intransal prostheres and those he has designed are extremely ingenious but in the author's opinion they are not necessary in simple

the fracture arridutes to the superior maxilla suc the vault of the palate a point of support must be found outside the nose Darci sac obtains such a point by applying an autator's helmet of plaster In very complicate 1 ca es a system of pliabe levers may be attached to this belinet to furni h intranasal extranasal or maxillo lental prostheses as destred The article contains illustrations showing the

In complicated cases particularly those in which

different types of fracture of the nose

TIDREL C MORGA MD

Terracol J Osteomy elitis of the Superior Vixilla in the Aursing Infant (L st om flite du mavi laire supérie e clez le noure on) Ar h nice al de larvegol 1028 XV 1V 32

The author first reviews the embryology of the maxillary smus and its anatomy in the newborn ınfant

He states that esteemy entrs of the superior maxilla in the infant is rare. I angel found 7 cases among

15 000 patients Terracol has seen only 2 cases He believes that as a rule the portal of entry of the infection is the mouth but that in some cases may be the antrum According to Broca the zone of growth of the teeth plays a part similar to that played by the epiphyseal cartilage in the long bones. The gingivitis associated with eruption of the teeth is followed by folliculitis and the folliculitis by ostertis

the whole bone soon becoming involved In the beginning the child may cry and refuse to nurse but there are no localizing signs. Soon how ever there is a unilateral swelling of the face asso ciated frequently with closure of the eye infiltration of the eyelid and chemosis The skin of the raw becomes red and the veins dilate Occasionally the inflammation suggests crysipelas Palpation is very painful and the tissues are hot and hard There is a marked contrast between the half of the palate that is normal and the half that is swollen Fluctuation is soon noted and a fistula may form at the edge of the tooth socket at the inner angle of the eve or in the edge of the orbit If it is formed at the edge of the tooth socket the germ of the tooth may be expelled Frequently two teeth are lost the canine and the premolar The fistula rarely forms in the vault of the palate There is always a nasal discharge

As in other forms of osteomy clitis the acute phase is succeeded by a chronic phase. Pus and sequestra are discharged and probing reveals denuded bone Feeding is difficult because it is painful and the osteomyelitis may be followed by septicæmia with

multiple visceral localizations

Operation should be performed as soon as the diagnosis is made. The principles to be followed are the same as for osteomyelitis elsewhere-incision of the soft parts and trephining of the bone. If a fistula has already formed the skin opening should be enlarged the hone curetted fungosities or sequestra removed and dramage established. If a fistula has not formed the operation should be performed through the mouth in order that dis figurement may be avoided. Without any anasthesia or with only slight infiltration of the mucous mem brane with a per cent novocain an incision should be made down to the bone and the bone trephined and curetted The operation should be performed rapidly Care must be taken not to curette too deeply as it is impossible to tell the exact extent of the lesion in young spongy bone and there is danger of bringing about a blood infection curettage the wall should be touched with a weak solution of zinc chloride and the cavity drained Dramage may be made through the nose times further collections of pus are formed. These are especially apt to occur beneath the orbit and must be incised Cicatrization should be slow and should occur from the bottom of the wound toward the surface Vaccines may be used as a supplement

to the operative measures The late results are good In all of Broca's cases the face remained perfectly symmetrical The vault of the palate and the nasal fossæ also remained normal in shape but as the

teeth corresponding to the expelled tooth germs were lacking a prosthesis was necessary later AUDREY G MORGAN M D

Duke Elder W S Ultraviolet Light in the Treat ment of Ophthalmic Disease Brit J Obhth 1028 331 280

This article is a report of the results obtained in 425 cases of opththalmic disease which were treated by general and local phototherapy at the Royal

London Onbthalmic Hospital

Clinically the most obvious effect of radiation is the production of an erythema in the skin an in crease in the bactericidal power of the blood a slight erythrocytosis an increase in the hæmoglobin and platelets a decrease in the polymorphonuclear cells and an increase in the lymphocytes cosmophiles calcium phosphorus and iron

The great majority of cases respond within a reasonably narrow margin but the site of the lesion and the individual variation of each patient render a routine dosage based on a standard test inexpedient and unsafe. The best basis for dosage is the ery thema of the skin and the bactericidal power of the

blood which seem to be correlated

In the treatment the body is divided into three areas the chest and front of the abdomen the back and the legs Each of these is radiated on alternate sittings the dose being gradually increased. The vapor lamp is used at first and then the carbon arc Twenty treatments are given and after a rest of from two to three weeks they are repeated if neces

Not only the effect on the eye condition, but also the general tonic effect is very marked. The patient feels better and stronger gams weight and sleeps better the appetite increases and the general immunity of the body is raised. The most marked im provement is noted in children

The dangers of the treatment are overdosage and idiosyncrasy of the patient

Overdosage causes general depression drowsiness

fatigue loss of energy and appetite headache nau sea irritability and insomnia Patients with a low blood pressure require smaller doses than others and show the signs of overdosage quickly The presence of a fever is a contra indication to the treatment During menstruation the doses must be reduced if signs of overdosage appear

An erythema of high degree is associated with more discomfort than danger healing occurs with out scarring No sequelæ such as follow \ ray dermatitis have been reported. There is no danger of epithelioma despite the finding of active mitosis

in the basal layers of the skin

The eyes should be protected at all times because the ultraviolet light may cause a painful photoph thalmia scotomata cataract or conjunctivitis

The effects of ultraviolet light treatment are best demonstrated in the chronic and intractable cases of indoxyclitis. The pain is relieved, the eye becomes white curried precipitates clear up pupilling adhesions break, the vitreous clears and vision improves. In tuberculosis, the average response is good, but in syphilis the response is a lways poor.

The author bileves that most fadures of the treat ment are due to excesse dosige. In the cases of choroditis scleritis and keratitis reviewed the results were generally good even when the condition was severe bud chronic. In the cases of interstitist was excerned that the cases of interstitist was except that it, exerted a tone effect on the general health. Corneal ulcers responded better to lord irradiation than to the general light baths. No improvement was noted in corneal operaties. Recurst a tone of the conjunctivity associated with debullating disease that the conjunctivity associated with debullating disease.

Barkan O Cloquet's Canal Visible in the Living with Observations of Hamorrhage into Clo quet's Canal irck Ophii 1928 Ivii 502

Barkan reports a case in which eximination te anterior call him both and carn with a wale anterior call him bohind the posterior lens surface and running backwarf to the lower portion of the optic di. No vestige of frail elements could be discerned. He reports also two cases of hemistribage and Colquet's canal. We in Wescert W D.

Tassman 1 S The I roteins of the Lens and Their Chemical Changes in the Pathogenesis of Senlie Cataract A ch Ophib 1928 1 1 361

While many new studies on cataract have been made in recent years, there is still much to be leatned regarding the various chemical changes taking place in the proteins of the lens. It is now known how ever that the total proteins constitute about as per cent of the lens mass and consist of a soluble and an insoluble portion. The soluble portion makes up 52 per cent of the total mass and the insoluble por tion 48 per cent. The soluble portion contains alpha crystallin beta crystallin and an albumin The alpha crystallin forms 37 per cent the beta crystallin 63 per cent and the albumin 1 per cent of the soluble protein. The alpha crystallin is found mainly in the external or cortical part of the lens and the beta crystallin mostly in the more central part The albumin shows no noticeable distribution The insoluble protein or framework is found to increase from within outward

I can protein like other proteins yield a positive rection with solum introprussed and ammonia In this reaction the beta crystallin is stronger than the alpha crystallin and the insoluble albuminod is negative. The rection is said to depend upon the presence of cystem I its instantly decreases as the two crystallins wansh from the lens until in mature citatacts it becomes entirely abent. This seems to suggest that opacities follow a reduction of the soluble crystallins but our knowledge regrating the

relationship of the chemical changes in the proteins of the lens to the pathogenesis of sende cataract is still incomplete. Charge R. McAurer M.D.

NOSE AND SINUSES

Glover J. A. Some Observations on Nasopharyn geal Epidemics in Public Schools 11 c Roy S.c. Med. Lond. 1928 vxi. 1393

Closer states that over 80 per cent of the illness to occurring in chool children are transmitted to droplet infection. He believes that some of the are created of such news in the public schools is appeared rather than real being explained by greater attent tion to minor februcial. The true increase for thouse to the increase of prevalence of influent the aftermath of the great epidemic of 104 mil the increase I demand for public rhool education which has fed to occurron fin.

The most common droplet infections ar influenza feverish colds chills perevised inknown origin and tonsithits. The regular infectious the are stare comparatively infrequent. The author discusses the incidence bacteriological findings and incidence of pneumonia ottits media and ton yibits.

In the prophylaxis vaccines are uncertain. There is some evidence however that they may diminish the incidence of complications. If used they hould be administered before the danger period is not later than November.

Intensive prophylaxis other than the use of vaccines should include (1) special efforts to pre vent children from returning to school after the holidays infected with influenza or (chricula (2) records of the temperature for three weeks after their return (1) immediate t olation of all children with pyrevia and catarrh (4) the forbidding of work before breakfast for at least the first six weeks of the term (c) a rule that all but baths and showers taken during the day or after games should be followed by a cold shower (6) the revention of chilling during games and (7) increased provision for dry clothing Infection takes place mainly in sleeping quarters Therefore proper spacing out of the beds and thorough cross ventilation in dormitories are of paramount importance. The author cites instances of cross infection due to the proximity of beds and reviews the stan lards of wall space floor space and cubi space laid do in by the Royal Commision Roatd of Education

NECK

Mosser W.B. The Effect of Iodine and Thyroid Feeding on the Thyroid Gland An Experimental Study S. g. Cur C. Of t. 9 S. 1 n.

Mo ser studied the effects of 10 line and third feeding on the thy roid gland in three groups of dogs. In the experiments on the first group 10 minims of Lugol's solution were fe'l for six weeks tud specimens of the thyroid vere taken just be fore and after

the feeding and again several months after the ter mination of the feeding

In the experiments on the se ond group thyroid extract was fed in increasing quantities until signs of by perthy rodism appeared and sodine was then given for six weeks. Specimens of the thyroid gland were obtained before and after the thyroid feeding at the end of the todane period and three months later.

In the experiments on the third group, this roid extract was given as in those on the second group and continued during the six weeks of rodine medication. The specimens of the first group obtained after the

todine feeding showed distortion of the acim by colloid and distinct flattening of the cell lining. The same changes were found in the sections removed several months later.

The pictures in the second and third group were dentical. The sections removed after the termina tion of the thirodiffeeding were similar to those in coup 1 after iodine feeding and after the subsequent todine period the findings were still practically unchanged. Three mouths later the colloid was discussioned to the subsequent todine period the findings were still practically activated the subsequent of the subsequence of the

The author ads ances the theory that sodine stimulates the thyroid to greater collod production which flattens the cells and temporarily decreases thyroim production (clinical improvement) that on pro longed medication the cells re adjust themselves and that finally naive trive eithers resumed and that finally naive trive of the collection of the cells re adjust the cells ready and that finally naive trive of the collection of the cells ready and that finally naive trive of the cells ready and the cells ready and the cells ready the cells ready to the cells ready the cells ready to the cells rea

Doederlein G Experimental Hyperthyroldism and its Effect on the Reproductive Function and the Progeny (Experimenteller Hyperthyrod ismus und seine Wirkum auf Fortpdanzing und Vachkommenschaft) Arch f Gynack 19 S cxxiii 668

The author states that in addition to the local mechanical conditions for fertilization and for pres ervation of the developing embryo the normal course of the processes of reproduction is dependent upon a number of extragental factors exogenic factors of importance in embryological development are climate (seasonal limitation of fertility in the polar regions etc.) nutrition (over nourishment under nourishment lack of vitamins) poisons (alcoholism) and infectious diseases (ty phoid fever malarin etc.) Chief among the endogenic factors is the function of the endocrine glands The directly stimulating influence of the suprarenal in the regulation of spermatogenesis and of the hypophysis on ovarian function are well known Less easily understood are the relations between the thyroid and the germinal organs Hyperfunction (Basedon's disease) and hypofunc tion (myxordema thyroidectomy) decrease fertility

According to Scybindes hyperthymization has the same effect but the influence of hypotunction or estripation of the thymus has not been determined. The relation of the parathyroids the epiphyses and the pancreas on reproduction is also unknown.

Experimental study carried on by the usual meth ods of resection or extirpation on the one hand and transplantation of the different endocrine organs on the other has failed in many directions partly be cause the operative removal was neutralized by the presence of accessory organs or was followed by the death of the experimental animal and partly because -with the exception of the germinal organs them selves-the specific influence of the transplanted organ ceased with the transplantation. As the result of the recent successful preparation of certain hormones in pure form especially the hormone of the thirmid it is now possible even if the full effect of the living organ is not attained to determine at least partially the qualitative and quantitative effect of the different secretions on the processes of reproduction Despite the variation in the sensitiv its of different animals even those of the same species to the injection of these preparations at is nevertheless possible to control the specific effect by proper dosage

Through the mating of animals with differing grades of hyperthyroidism Doederlein sought to determine the effect of hyperthyroidism upon the capacity for fertilizing and conceiving the course of pregnancy and labor the number and character of the progeny and the reversibility of the hyper thyroid state Guinea pigs were chosen for these investigations because of the length of their period of gestation-sixty five days-which allowed longer continued administration of small doses than would have been possible in the cases of rabbits whose gestation period is only thirty days. As a rule from 0 05 to 0 1 gm of thyroidin was administered every two days but sometimes daily by means of a glass tube introduced into the pharynx During the period of observation the animals were given a diet par ticularly rich in vitamins and the body weights and the carbon dioxide content of the expired air were recorded The observations were made on sixty animals some of which were under study for as long as ten months

Control studies of untreated animals showed in both series a temporary decrease in the body weight with an initial decrease and subsequent instease in the cuthon dour le production during the periods of increased sevual activity. In the case of pregnant animals they revealed a decided increase in the body weight with marked variations in the production of cirbon divoide during the second half of pregnancy and an increase in the carbon divoide production dring the last weeks corresponding to the increased demands of the developing fetus and the excretion of the products of fetal metabolism by the mother

An increase in the dosage of thyroidin caused a rapid decrease in weight and later intensified oxida tion with increased excretion of carbon dioxide

When the increase in the excretion of carbon dixode amounted to about 50 per cent the induced hyper thyroidism was regarded as of medium severe grade A male guinea pig which was given doses sufficient to produce this condition for seventeen days proved to be infertile having been observed in successful copulation with two females who were later immediately impregnated by untreated males. In the case of this male and those of two other males treated in the same was the decrease in the excretion of carbon dioxide which is characteristic of normal animals during the perio I of heightened sexual activity was absent. When the administration of thyroi lin was stopped conditions returned to normal proving that the miury to the sexual function caused by hyper thyroidism is reversible

The author concludes that hyperthy roidism in the male is capable of injuring the reproductive function leading either to infertility or to the begetting of

physically weak offspring

In the case of femile animals the effect of the throadin was even more pronounced half the amount resulting in about the same increase in car more accordance with the full amount in males. The power of conception how ever was not decreased. When the male had not received the treatment the young were horn with mall hyperth youldan. When the male also had not been accordant to the contract of the

Continued treatment with large do es led to fail use of conception whereas after the administration of thy ou in was do-continued the female conceived immediately, upon being paired with the same major continuation of the mediation during pregnancy resulted in abortion or if the gestation was continued to term in a high puerreral mortality.

These experiments demonstrate that the offiques of hyperthy roul mother are born with an increased throad function but that as in the case of the parent animals this hyperthy roddem, which arises during intra ultrane life is reversible. A listing injury to the progeny by the artificially induced hyperthy rollism is therefore to be excluded. If the mobile with Bacedows of slease bears young with the same condition a plumplandular analoge affecting the germ plasm is at work.

In conclusion the author states that on account of the other injurious effects of lirge do es of thirudin hormonal sterilization by means of the fertility limiting effect of this prepriation is impricted but that a combination of thyroidin with pancteatic or follicular hormone might prove of value

Brown R G Some Varieties of SLin Flaps in Connection with Cases of Total and Henti Laryngectomies Froc Roy Soc Med Load 1028 xx 1100

The author reports three cases in which luon gectomy was performed with his improved technique. In total lary ngectomy, a quadrialeral shin flap with inclusion of the platysma fibers was used with excellent results.

In the preliminary tracheotomy for total large gectomy a skin flap was slid deep down in the neck wound and fixed there by mattress sutures. This

procedure gave a cleaner wound
In a case of complete postdiphtheric stenosis of the
larynx the author reconstructed the larynx First

larynx the author reconstructed the larynx. First he performed a hemilary ngectomy in order to get and of the serv tissue by turning in a skin flap and two months later he covered the anterior wall with slide flaps. A good result was obtained.

MANFORD P MALTE M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

The Aftermath of Head Injuries \ | Jork State J M 1928 xxvm 771 Discussion-The Aftermath of Head Peet M M Injuries V Lork State J W 1928 xxviii 777

ECKEL states that traumatic epilepsy develops in about 5 per cent of cases of severe head injury. It is claimed by many that the determining factor is a hereditary or constitutional predisposition to nerv ous instability and there seems to be abundant evidence that the predisposition is more important than the maury itself It is doubtful if epilepsy ever occurs following a head injury except when such a predisposition exists

No conclusive case of brain tumor following a head mury has been reported

In syphilis of the central nervous system the light ing up or aggravation of symptoms must occur within a few days after the injury to have any casual

relationship to it True delayed traumatic epilepsy shows some symptoms directly after the injury and develops within ten days. Traumatic meningitis may follow a skull fracture within a period ranging from

days to months The role of trauma as a cause of definite mental disease is debatable

The symptoms of functional nervous disorders appear after a few days or weeks. They are usually classed as traumatic neurasthenia traumatic neu rosis or traumatic hysteria. As the complaints are the same regardless of the patient's age or race or the degree of the mury Dana designates the clinical picture in these cases as the head wound syn The symptoms are headache and dizziness irritability apathy fatigue and ear noises followed later by tremor vasomotor flushing palpitation abnormalities in the gait and numbriess. In some cases palsies or hemi an esthesia develops. There appears to be an inverse relationship between the sevents of the symptoms and the injury As a rule the patient is of a neurotic make up. Some of the worst cases are the result of lear alone

In addition to the usual careful neurological tests including examination of the eve grounds and spinal fluid \ ray examination and encephalography are in licated to determine the presence of organic dis When organic injury is found it is usually impossible to modify the signs unless they are produced by a condition which can be relieved by surgical or medicinal measures. In cases with no organic signs the true nature of the condition should be explained to the patient and an effort made to obtain early compensation for the injury

If the patient receives compensation early many later symptoms may be avoided Additional aids in the treatment are suggestion electricity massage and heat. The patient should be encouraged to work If individual attention and care are given to each case nearly all such patients can be restored to relatively normal health

PEET also accepts the theory that in many cases the attack of epilepsy is the cause of the head injury rather than the reverse He states that the question of brain tumor as a result of injury is still an open one as a number of tumors have been found immedi ately beneath an area of old trauma

MAURICE MEYERS M D

Rio Hortega P The Histological Structure of the Pineal Gland (Constitución h stológica de la glándula pineal) Prog de la clin Madrid 1928 XV1 178

The author has examined the pineal glands of children adolescents and adults and the pineal glands of cattle The report of his findings is sup-

plemented by numerous photomicrographs Various investigators have described three kinds of cells in the pineal gland-nerve cells neuroglia cells and pineal or specific parenchymatous cellsbut the author found only neurolgia and parenchy matous cells and concludes that there are few if any true nerve cells. He states that the lobules of the gland are made up of the specific parenchymatous cells which constitute the greater part of the gland and a smaller number of neuroglia cells scattered among the parenchymatous cells. The parenchy matous cells are stellate with smooth flexible processes which divide and frequently end in key shaped enlargements at the edge of the lobules or at the end of the adventitia of the vessels

The neuroglia cells are like the astrocytes of neuroglia elsewhere they stain in the same way and generally show filiform processes with implantation on the vessels. The amount of neuroglia differs greatly in different individuals even under normal conditions The number of neuroglia cells in propor tion to the number of parenchy matous cells is smaller in the pineal gland than in the cerebrum. The num ber of neuroglia cells is greater in the extraglandular zones that is at the periphery of the true paren chyma where the intermingling of the nerve and neuroglia fibers forms complicated plexuses

On silver staining several types of neuroglia cells are found in the human pineal gland The gliacytes of the pineal gland are closely connected with the They form very complex perivascular vesseis systems In addition to the ordinary gliacytes which are

distinctly fibrous in character there is another

grunular form which appears to be connected with the function of the gland. These are shown very clearly by the author's method of silver carbonate staining They are scattered irregularly through the gland parenchy ma and are often particularly numer ous at the margins of the lobes. They were found in large numbers in the pineal pland of a young man who died of cerebral tumor

The quantitative differences in the neuroglia are so great even normally that it is difficult to say just when hyperplasts begins Changes occur in the glan I in various diseases but they do not seem to he specific. The gliosis may be circumscribed or diffuse lobular penilobular endolobular or extra lobular or occur in plaques. Usts often develop in the planues. I egressive changes in the neuroglia fibers may be manifested by ring shaped or key shaped masses of fibers or by hydinization of the fibers Brain sand re embling the sandy concretions of the chornel plexus is sometimes found in the pinerl gland ALDREY (MORGAS M D

Horrax G and Haight C A Study of the Reces sion of Choked Disks Following Operations for Brain Tumor tr # Oph # 1928 lvii 467

Horrax and Haight studied the recession of papil lordema in 100 patients operated upon for brain tumor They found the average reces ion was least (6: a per cent) in the cases of supratentorial tumor in which only a decompression without removal of the neoplasm was performed and was greatest (or per cent) in the cases of subtentorial tumor in which the neoplasm was completely or extensively removed

I rom the point of view of the location of the tumor the recession was greatest (of per cent) in the cases of tumors of the cerebellopontile angle most of which were acoustic neuromata. From the point of view of the pathological type of tumor little definite information could be obtained

I FO M DAYDOFF M D

Guleke N The Surgical Treatment of Meningitis Following Traumata and Other Infections (Die el trutgische Behandlung der Meningitis im (selolge von Traumen and anderen Infektionen) ca T e d der toch Ges f Chir Berlin 1028

Surgeons in contrast to otorhinologists usually have little to do with meningitis in times of peace and comparatively few reports on acute suppurative meningitis have appeared in the literature Many of the 100 large surgical clinics to which the author sent an inquiry regarding the results of the surgical treat ment of suppurative meningitis had had no cases Moreover Guleke's own material that of the Jena surgical clinic is not very large. Among 76 442 pa tients there were only 5 with serous meningitis and only 23 with diffuse suppurative meningitis those with serous meningitis were cured but of those with suppurative meningitis 22 died. The cases of diffuse suppurative meningitis were grouped accord ing to the cause of the condition as follows

Cun Crel Skull fracture Operation for brain tumor Ichorous I rain prolapse an I cerebrospinal fund

Perforation of absce s of the cerebellum Lostoperative empyema (cystic tumor) Infecte i encephalocele or meningocele (1 ca. e operated upon) I uruncle of the face or no e O-teomy elitis of the pine

There were also a number of cases of spinal menin gitis. In these a cure resulted. Of 34 patients with otogenic meningitis 33 died in spite of operative in tervention. In the 107 cases of skull fracture admit ted in the perio I from 1020 to 1028 there were 18 deaths a mortality of 16 8 per cent. In the 51 cases of fracture of the vault of the cransum, there were 6 deaths a mortality of 12 per cent. One (2 per cent) of the deaths was due to meningitis. In the 45 cases of fracture of the base of the skull there were 11 deaths a mortality of 25 per cent. In this group also I (2 per cent) of the deaths was due to meningi tis One case of meningitis was cured the incidence of cure being therefore 4 per cent. In the 11 cases of fracture of both the vault and the base of the skull there were 5 deaths a mortality of 45 per cent and 2

(18 per cent) of the deaths were due to meningitis The author briefly reviews the anatomy of the arachnoid or subarachnoid space, which is of particular interest to the surgeon This space is not uni form but presents besides numerous mesh forms tions narrow and wide spaces. At the base are the cisterns the largest of which the cisterna occipitomedullaris is from 1 to 15 cm deep. The spinal cord space is divided by the ligamentum denticula tum into a wider anterior and a narrower posterior space The posterior space is particularly narrow in its thoracic portion so that irrigation is hardly pos sible When colored solutions are injected the dye does not appear in the region of the occipital lobe The circulation of the cerebrospinal fluid which takes its origin from the chorioid plexus and the epi thehal covering of the ventricle of the brain is not rapid and uniform it is influenced by the movements of the pulse and respiration from which it receives a motion resembling that of a pendulum. The move ments of the head also have a pumping effect upon it These facts explain the frequent spread of meningitis by leaps and the cap like distribution of the condition without involvement of the occipital lobe. The spread of traumatic meningitis depends also upon other circumstances such as the occurrence of ordema and prolapse of the brain According to whether one or the other of these occurs a conventy meningitis or a basilar meningiti develops. The latter is more frequent after gunshot injuries In these conditions also the disease often spreads by leaps sometimes oc curring for example on the side opposite that of the

injury Meningitis of the spinal cord develops most often posteriorly in the narrow part. When it develops an teriorly it is less severe

Moningitis must be divided first into the circum scribed and the diffuse forms Hæmatogenic menin gitis is most often diffuse. The surgeon is concerned chiefly with the meningitis which is spread by con tinuity or arises from contact (trauma suppura

Cases of fracture of the base of the skull are of particular interest their mortality from meningitis noses and clinical course. He states that the progno

sis a uncertain as the severest forms often retrogress

spontaneously whereas milder forms often end fa

tally Moreover the demonstration of the presence

being high The author does not go into details as to the diag

of certain micro organisms is not of definite prog nostic significance. The finding of streptococci is regarded as more unfavorable than the finding of staphylococci and the pneumococcus is very much leared. However even streptococcic meningitis may terminate in recovery In the treatment the two chief aims are to remove the source of the suppuration and to combat the spreading inflammation. The first can be attempted only when a known primary focus is present that is in the cases in which the tife tion occurred by exten sion and rarely in those in which it took place by the blood stream To combat the progre s of the inflam mation it is necessary to operate at the beginning of the meningitis. When the fract re is extentive it is difficult to decide how far to go Voss of Frankfort advised going as far as possible with the object of prophylaxis but the author is more conservative The extension of meningitis by leaps makes the de cision as to the of erative indications very difficult Between two pus loci there may be healthy bone and healthy dura Frequently the decision as to whether other foct are present is aided by examination of the cerebrospinal fluid Punctures carried out from the margin of the bone do not always hit the pus focus In ome ca es the progress of the meningitis is success fully stemmed whereas in others only local benefit 1 obtained and the general meningitis progresses. If

the meningitis cannot be otherwise controlled lum har suboccipital or ventricle puncture is to be con sidered Immediate improvement often follows such a procedure. This is due not to the removal of bac. teria or toxins but to the relief of pressure and not so much to the mechanical consequences of the latter a to the improvement in the ci culation through the mjured portions of the brain by which fresh defen sive material is supplied. It must be borne in mind howe er that the puncture is not without danger It can change a local into a generalized meningiti and may be followed by collapse fatal hymorrhages or abscess perforation. Hence extreme care is nece sary The puncture should be carried out only with the patient in the prone position and should be con trolled by measurements of pressure Particular care is indicated if the medulfa is pressed downward (sud den lowering of pressure)

Opinions as to the value of puncture are still di vergent Arause speaks of disastrous results Garre

believes that in one of his cases he effected a cure by puncture The procedure seems to have been bene ficial in a number of cases particularly when it was cautiously repeated There is lack of agreement also as to whether suboccipital or lumbar puncture is preferable Ventrale puncture can be considered only in the case of a closed ventricle. If the puncture has only a temporary effect dramage should be in creased by exposing the cisterns but even when this is done the occipital portion of the brain will still re main shut off I ollowing this procedure al o the re sults depend mainly upon the relief of pres ure since dramage is effectual only in cases of thin pus that is early cases. Drainage of the ventricle remains as a last and desperate remedy. Laminectomy of the second to the third lumbar vertebra may be added to drainage and the exposed dura then widely opened In this procedure also there is danger of collan e and of extension of the infection. The openings thus made are ineffective after four or five days but some times as in z of the author's 8 cases in which this treatment was used the temporary drainage is suffi cient. Guleke regards irrigations as inadvisable as they do not reach all parts and are not without dan ger having been followed by irritation and paralysis On the other hand in epidemic and streptococcus meningiti they have sometimes been followed by improvement. The author opposes irrigation with antiseptics even more strongly than irrigation with physiological solutions With regard to the value of serotherapy be is skeptical although there are re ports of cures in cases of epidemic meningitis and even in cases of streptoroccus meningitis from the use of streptococcus anti erum. He has little to say also with regard to vaccine therapy

Summing up Guleke holds that the mo t important factors in the treatment of meningitis are complete quiet and removal of the primary focus Next in importance are lumbar punctu e repeated if per essary and drainage. He is very skeptical as to the value of irrigations and chemotherapeutic remedies als) as to protropin although he still uses it

I tart statistics are impossible. In all 61 (19 per cent) of 325 cases of mening tis ha e been reported cured but in the author's opinion this percentage is to high Guleke refers again to his own material and states that I ay r s results were equally poor He states that the surgical treatment inaugurated by Kuemmel an I Barth must be further norked out Of shiel importance however is the prevention of meninpitis by careful treatment of skull wounds (re moval of the wound track and closure of the wound as in as possible) conservatism in operating on the meninges and appropriate treatment of furuncles and other pus foci from which meningitis can origi

Following Guleke's report Zanor discusses men ments from the standpoint of the otologist III. con clusions are based on twenty year experience in mulitary and civil practice inquiries made of others and 1 300 cases of memirgitis including 150 of nasal and 160 of pharyngeal origin

Lange first defines menagitis and calls attention to the fact that not every cerebro pinal hydrops is inflammatory. I uncture may reveal increased presure but no lurther changes in the cerebroty and fluid such as an increase in cells or protein. On the distribution of the cerebroty in the cerebroty in the cerebroty in the case of the cerebroty in the case of menaging the cells are cell interest to the surgeon and ofologist the determination of the previous infection is of input tance as well as the clinical symptoms and the changes in the creptorspointal fluid picture.

Zange excludes from his discussion meninettis not due to infection. He deal principally with two forms suppurative meningitis Leginning suddenly or insidiously in which the cerebrospinal fluid does not necessarily contain ous but always contains poly morphonuclear cells and serous meningitis which may go on to the suppurative form. He states that the diagnosis is not always simple even the experi enced otologist may err. A differential desenosis between circum cribed and generalized meningitis is not always possible even after trephination. Never theless the results of treatment depend upon early diagnosis since meningitis can be influenced by way of the primary focus only in the early stage The value of chemotherapy and serotherapy is still doubtful The withdrawal of cerebro pinal flui I has its dangers although in some clinics it has increased the number of cures. Urotropin helps decidedly in many cases. A compare on of the statistics before and after its use showed that it has increa ed the number of cures by about half. Bier's passive hy peramia applied to the neck sometimes has a favor able influence particularly after the withdrawal of cerebrospinal fluid. The chief essential however is exclusion of the primary focus and of the route by which the infection travels as completely and as early as possible. For this an exact knowledge of the routes is necessary These routes are outline 1 by Jange as follows

THE SITES AND ROUTES OF INFECTION IN MENINGITIS ORIGINATING IN THE FAR NOSE OR PHARMY INCLUDING SIMULTANEOUS INJURY TO THE BASE OF THE SKULL (FRAC

TURI STAB WOUND OR GUNSHOT WOUND)

A With origin in the ear (mid lie car with its accessory cavities in the mistoid and the rest of the petrous portion of the temporal bone)

In acute and chrome supportations of the middle car

To the middle cranal lossa through (1) the teg
men (1) mpain (2) the ante nor or posterior base of the
tip of the petrous portion of the temporal bone (near
the chruis) in ostromyelitis of this part of the bone
(rare)

& To the posterior cranial for a through the bose in forted or behind the transver e sums and sigmoid sums (with origin in the mastori process) ()) induced by bway of an infectious and shrombout (with origin in the mast tode process) or the sum of the mastorial through the more auditory neature or forties without the contraction of the sum of the more and the sum of the s

II With simultaneous fracture of the base of the skill involving the ear. The infection preads by way of the lony projections of the la e of the kull mo t frequently t) rough the tegmen tympani and along the antener margin of the netrous portion of the temporal hone in front of the inner ear and more rarely through the ma told | roce and po terior cranial fosts (behin | the inner lea and laby rinth) into the inner auditory meatus. To prevent errors in diagnosis it is parti plarly important to note that in pite of the fact that in all a ca es encre di turbances of the inner eur floss of hearing vertigo with nystagmus etc.) are regularly present, the causes may be not in the inner ear but behind the labrinth (tear c ntu up hemorrhage from the cultth nerve) III With infected puncture wounds or gun hot in The route of infection is either the puncture or gun fot track injuring the cranium or inner ear or projections from the track

B With origin in the nose and its accessors carities
I In acute and chronic supportations of the no e and

acce sory mt al cavit es

a In infections (furuncle) of the external nose (and upper lip) from a ending thrombophi bits by way of the venous plexuses and sinuses of the base of the shuff (caverno us sinus thrombo is etc) by In pure upp urations of the anner no e through the

lams a cribrost by way of the lymph or blood ves the (extremels rare)

c. In sur purations of the acce ony cavitie through
the fontal home or the roof of the ethmoid cavity or

the contact hone of the root of the ethiologically of henoidal inus or through the lamina cribrosa (the latter route almost only after operative injuries u has may result from an error in the hingue)

d In exten on of the suppuration of the acce sort cavities (mo thy uppuration of the antum of ligh more or the elimnoi) to the orbit (orbital phi gnon) a a rule by progresses the thrombophibities of the orbital ven by say of the venous plexic es and since so of the bac of the kull particularly in acce prosu-

thr mi u i II With imultaneous fra ture of the ba e of the kull thr ugh the fracture t ur in the lamina cr brosa (fre

quently) or the roof of the a cessory cavities

III With other injuri s

a To triumati bace s of the naid segitum, through
the lamina cribr sa (parti ularly in dull injuries of the

exte nal cartilaginous and bony no e)

b In puncture woun i through the orbit when the
site if the puncture is a til in rangle of the exe
u ually through the roof of the ethmoria and the lamina

critro a or multane wil through the roof of the sphenoidal mus. When the ste f the puncture I more lateral through the roof of the frontal mus. I may be a fine the position and the tion of the wound trake either from the wound trake of from lateral projection.

C With origin in the phaty ngcal or but all casity in personalitar and lateral phaty ngcal or but all casity in personalitar and lateral phaty ngcal or but all on or with origin in the teeth all ays through an assonating thromosphichitis by may of the venous plause and into the bat of the skull (avernous thrombose).

Zange emphasizes that it 1 of jarticular importance as regards the operative proce lure to recognize the fact that the infection frequently passes through the unchanged bony wall by way of the vessel canals. He then reviews statistics regarding the successful results and failures of surgical treatment.

By exclusion of the primary focus 21 (39 per cent) of 54 patients (some of whom were moribund) were cured Of 1 282 cases treated in other clinics (in cluding some that were very severe) a cure was ob tained in 364 (28 per cent) Of early cases 24 per cent and of fully developed cases 33 per cent were cured Of cases of meningitis originating in the labyrinth 22 per cent were cured When the condi tion was unilateral a cure was obtained in 65 per cent Of cases in which the infection originated in the nose 6 per cent were cured Of the 21 cases in which it began in the pharynx all were fatal opera tion was performed in 19

Zange calls attention particularly to the difference in mortality between the cases that came for treat ment early and those that came late He emphasizes the importance of diagnostic spinal puncture but states that its results are of value only to corroborate the clinical picture. He calls attention to certain possibilities of error in the examination of the cere brospinal fluid. When adhesions are present the cerebrospinal fluid may be entirely normal at one place and present the findings characteristic of men ingitis at another. In suppurative meningitis the fluid may at first be entirely clear but contain an in creased number of lymphocytes and granulocytes whereas in serous meningitis it shows only lympho

The changes occurring in the cerebrospinal fluid in trauma or infection (hæmorrhages) are cited These changes appear promptly but in contrast to the changes caused by inflammation usually subside rapidly. As the diagnosis is often not made until late Voss always gives prophylactic treatment has obtained good results by following this plan but the author does not accept his recommendation Zange warns particularly against proceeding too en ergetically in fractures of the base of the skull. He believes that an expectant policy should be followed in these cases the patient being kept under constant

Zange next reviews the various operative procedures for exclusion of the primary focus and of the routes of propagation in the region of the lateral and anterior cranial fossæ He describes the technique for exposure of the semicircular canals without in jury to the facial nerve or the fenestra rotunda At tention is called to the fact that as in the nose the true focus is sometimes not found at radical opera tion Frequently the focus must be exposed at a dis tance in the dura. Sometimes the vestibulum and cochlea must be exposed (Jansen's extended opera tion) In the case of the nose it is often necessary to expose all of the accessory cavities. In the case of the extremely sensitive lamina cribrosa the greatest caution is necessary as it is often through this struc ture that extension of the meningitis first takes

Finally Zange describes the fronto orbital route (removal of the frontal process of the nasal bone lachrymal bone lamina papyracea floor of the fron tal sinus ethmoid sphenoidal sinus and the roofs of

the frontal and sphenoidal sinuses with care not to injure the lamina cribrosa) The operations neces sary are often such as to require the most accurate anatomical knowledge

The author agrees with Guleke that the chief aim of our endeavors should be to prevent the occurrence of meningitis

In the discussion LOENIG (Wuerzburg) cites the difficulties met with by the surgeon especially the surgeon in the country in this field in which the co operation of surgeon and otologist is so necessary

WILLICH (Jena) reviews his investigations on the circulation of the cerebrospinal fluid With dye stuffs or the rodine test he attempted to ascertain how soon fluid injected by the lumbar or the suboc cipital route would appear at the opposite end. He has come to the conclusion that there is no important physiological current as the appearance of the injected fluid could be hastened by raising the pelvis or the head The results of the test in a child with hydrocephalus and spina bifida are cited Both sub occipital and lumbar injections were made. With the head lowered the test fluid appeared in the right but not in the left ventricle Encephalography showed an open hydrocephalus on the right side and closure on the left side

SCHMUTTER (Jena) discusses the action of antisep tic solutions in the subarachnoid space. The experi ments were carried out on 32 dogs Mercury prepa rations such as sublimate and also rivanol and acridine preparations had an injurious effect on the tis sues causing necrosis. After the injection of quinine preparations there was no necrosis but foci of degen eration appeared. I resolod caused hypera mia and exudation silver preparations definite round cell in filtration and hyperæmia and solution of sodium chloride hyperamia but only slight round cell infil tration The experiments show that the action of in troduced anti eptic substances is not to be under rated

SCHOENBAUER (Vienna) discusses the fate of pa tients discharged after recovery from meningitis 25 patients treated in 1921 3 are still living. One of these is still able to work at full capacity seven years after his discharge. Another also remained well for some time but died later of disease of the liver The third suffers from epileptic convulsions Of 66 patients treated in I requet's pediatric clinic 13 are still alive. Of 30 children who had epidemic meningitis 8 are still hving One of these is deaf 3 have hydrocephalus 1 entered the clinic again on account of epileptic convulsions 1 continues to have symptoms i died a few weeks after discharge and only r remained entirely cured and developed well Therefore of 10 children who survived only 3 are normal All of these cases were treated with sero therapy not by surgery

STARLINGER (Innsbruck) reports that he has been able to demonstrate urotropin in cerebrospinal fluid obtained by corpus callosum puncture and drainage of cysts. In experiments he injected a 10 per cent solution of urotropin into the internal carotid On Zange first defines menugita and calls attenton to the fact that not every cerebrost and hydrogen sindlammatory. Luncture may reveal increase I present inflammatory. Luncture may reveal increase I present that the management of the present of the

due to infection. He deals principally with two forms suppurative meningitis beginning suddenly or insidiously in which the cerebrospinal fluid does not necessarily contain pus but always contains poly morphonuclear cells and serous meningitis which may go on to the suppurative form. He states that the diagnosis is not always simple, even the experienced otologist may err \ differential di ignosis between circumscribed and generalize I meningitis is not always possible even after trephination. Never theless the results of treatment depend upon early diagnosis since meningitis can be influenced by way of the primary focus only in the early stage The value of chemotherapy and scrotherapy is still doubtful The withdrawal of cerebrospinal flui I has its dangers although in some clinics it has increased the number of cures. Urotropin helps decidedly in many cases \ comparison of the statistics before and after its use showed that it has increased the number of cures by about half Bier's passive hy peramia applied to the neck sometimes has a favor able influence particularly after the withdrawal of cerebrospinal fluid. The chief essential however is exclusion of the primary focus and of the route by which the infection travels as completely and as early as possible. For this an exact knowledge of the routes is necessity. These routes are outlined by

THE SITES AND ROUTES OF INFECTION IN MENINGITIS OBJECTATING IN THE EAR MOSE OR HEREN'S INCLUDING SCHILLIANGOUS INJURY TO THE BASE OF THE SECIL (FEACTURE STEE WOLVD OR CLASHOT WILLD)

Lange as follows

A With origin in the ear (middle ear with its a cessory cavities in the mastoid and the re t of the retrous portion of the temporal bone)

I In acute and c'rome suppurations of the mildle est of to the mildle cranial to as through (1) the ten ment tympan (2) the antenor or pote for ba e of the tip of the petrous portion of the temporal bone (near the clivis) in osteomy-clits of this 1 art of the bone

(nate) b To the posterior cranal fo a (1) directly through the bone in front of on behind the train assume and signated by the size of the size and directly by way of an infectious smooth throughout (with origin in the masted of process) or by way of the innear criotitis internal through the innear and enoperand of the accurate directly and enoperand of the accurate directly and enoperand of the accurate directly internal internal course almost end, but all the size of the product of the size of the size

II With simultaneous fracture of the base of the six! involving the ear. The infection spreads by way of the bons projections of the base of the kull most frequently through the tegmen tympun and along the saten a marg a of the petrous portion of the temporal bore in front of the inner ear and more rarely through the mas ton I process and po terror transatiossa (be) and the meer car) or il rough the tegmen typic am an impereat (cor) lea and lat winth) into the friner and tory meatus. To prevent errors in diagn si it i particularly important to note that in spite of the fact that in all a cases severe d turbances of the inner ear (la s of bearing se ties with nystagmu etc) are regularly pre-ent the causes may be not in the inner ear but behind the I tyneth ftear contu ion harmorriage from the eighth nerve) III With infected puncture wounds or gun bot in furies. The route of infection is either the punct re or gun hot track injuring the cranium or inner ear or projections from this track

B With only in the nose and its accessory carries

I In acute and chronic suppurations of the nose and accessory nasal castiles

a In Infection (furuncle) of the external nove (and upper lip) from ascending thrombop highits by way of the venous plexuses and insues of the base of the skull (caterno us sinus thrombos) et)

b In pure suppurations of the inner no e through the lam na cribrosa by way of the lymph or blood seed (extremely rate)

In suppurations of the acce ory castile through the fontal bone or the roof of the ethnoid can't of hondal into or through the lamina endures the latter route almo touly after operative might such

as may re ult from an error in the hinquel of In exten in of the supportation of the serteson casities (mo thy supportation and the serteson casities (mo thy supportation and the anterim of High more or the ethomoly) to the orbit (orbital philegismo) a a rule by progressive thrombophiledust of the orbital view 1, way of the term is pleruses and immess of the base of the kull particularly in caverno u througho 1.

II With imultaneous fracture of the base of the skall through the fracture 1 are in the lamina embrosa (for quently) or the oof of the accessory cavities

III With other injuries

a In traumaticable of the mail epitum through
the laminacithe sa (particularly in dull injurie of the
external cartilaginou and bony n se)

b In pun ture w un! through the orbit when the the f the juncture i in the inner angle of the cye u unly through the roof of the ethmoid and the lammar cribro a or insultaneou by through the roof of the phenoidal in. Whin the sate of the penciture is me e lateral through the roof of the frontals not c In gunsilor injuries a ording to the pot ton an!

mo e lateral thr ugh the roof of the frontals nus c In gunshot mounts a ording to the po thou and dre thou of the wound track either from the wound track or from lateral proje thous

C With origin in the baryong all of buccal castly in perton illar and late all pharyongeal phlegmon or with origin in the teeth always through an ascending thrombophicbus by way of the venous ple use and single of the base of the skull (a errous thromboset).

Lange emphasizes that it is of pirti ular importance as regards the operative pro-edure to recognizthe fact that the infection frequently prises through the unchanged bony wall by way of the vessel cinal. He then reviews statistics regarding the successful results and failures of surgical treatment. By exclusion of the primary focus 21 (49 per cent) of 54 patients fosme of whom were mornhund) were cured Of 1 282 cases treated in other chincs (in cluding some that were very severe) a cure was obtained in 361 (28 per cent) Of early cases 24 per cent and of fully developed cases 3.3 per cent were cured Of cases of meningitis originating in the labyrinth 22 per cent were cured. When the condition was unilateral as cure was obtained in the condition was unilateral as cure was obtained in the condition of the co

took was performed in a periodually to the difference in mortality between the cases that came for treat ment early and those that came for treat the importance discussed the importance of the case of the case

The changes occurring in the cerebrospinal fluid in traums or infection (harmorthages) are cited. These changes appear promptly but in contrast to the changes caused by inflammation usually subside rapidly. As the diagnoss: often not made until late Voss always guest prophylactic treatment. He has obtained good results by following this plan but the author does not accept his recommendation. Zange warns particularly against proceeding too energically in fractures of the base of the skull. He believes that an expectant policy should be followed before the parent being kept under constant observation.

Zange next reviews the various operative proce dures for exclusion of the primary focus and of the routes of propagation in the region of the lateral and anterior cranial fossæ He describes the technique for exposure of the semicircular canals without in jury to the facial nerve or the fenestra rotunda At tention is called to the fact that as in the nose the true focus is sometimes not found at radical opera tion Trequently the focus must be exposed at a dis tance in the dura Sometimes the vestibulum and cochlea must be exposed (Jansen's extended opera tion) In the case of the nose it is often necessary to expose all of the accessory cavities. In the case of the extremely sensitive lamina cribrosa the greatest caution is necessary as it is often through this struc ture that extension of the meningitis first takes

Finally Zange describes the fronto orbital route (removal of the frontal process of the nasal bone lachrymal bone lamna papyracea floor of the fron tal sinus ethmoid sphenoidal sinus and the roofs of

the frontal and sphenoidal sinuses with care not to injure the lamina cribrosa). The operations neces sary are often such as to require the most accurate anatomical knowledge.

The author agrees with Gulcke that the chief aim of our endeavors should be to prevent the occurrence of menungits

In the discussion Koenic (Wuerzburg) cites the difficulties met with by the surgeon especially the surgeon in the country in this field in which the cooperation of surgeon and otologist is 50 necessary

WILLICH (Jena) reviews his investigations on the crucialation of the cerebrospinal fluid With dystuffs or the iodine test he attempted to ascertain how soon fluid injected by the lumbar or the suboccipital route would appear at the opposite end. He has come to the conclusion that there is no important physiological current as the appearance of the injected fluid could be histered by raising the pietus or the head. The results of the test in a child with hydrocephalis and synus binda are cited. Both suboccipital and lumbar injections were made. With the control of the pietus of the control of the con

SCHMUTTER (Jena) discusses the action of antisept to solutions in the subarrichmoid space. The experiments were carried out on 32 dogs. Mercury preparations such as sublimate and also rivanol and acridine preparations bad an injurious effect on the tissues causing necroiss. After the injection of quinne preparations there was no necrosis but foci of degen eration appeared. I resioned caused by peraginal existence and hyperchain and solution of sodium filtration and hyperchain and solution of sodium chloride hyperchains but only slight round cell infiltration. The experiments show that the action of in troduced antiseptic substances is not to be under rated.

SCHOENBALER (Vienna) discusses the fate of pa tients discharged after recovery from meningitis. Of 25 patients treated in 1921 3 are still living. One of these is still able to work at full capacity seven years after his discharge. Another also remained well for some time but died later of disease of the liver The third suffers from epileptic convulsions Of 66 patients treated in I irquet's pediatric clinic 13 are still alive Of 30 children who had epidemic meningitis 8 are still living One of these is deaf 3 have hydrocephalus I entered the clinic again on account of epileptic convulsions I continues to have symptoms I died a few weeks after discharge and only a remained entirely cured and developed well Therefore of 10 children who survived only 3 are normal All of these cases were treated with sero therapy not by surgery

STAKILNGER (Innsbruck) reports that he has been able to demonstrate urotropin in cerebrospinal fluid obtained by corpus callosum puncture and drainage of cysts in experiments he injected a ro per cent solution of urotropia into the internal carotid. On

sub equent examination he was able to demonstrate o 75 per cent of the urotropin in the cerebrospinal fluid but none in the brain

BRUFNINGS (Jena) states that he has endeavored to improve the chances for the early diagnosis of meningitis. In cases in which other symptoms of meningitis are still ab ent pressure on the jugular vein will cause headache. This is Queckenstaedt s test. The pressure must be continued for one minute. Even in clinically cured cases stast in the jugular vein causes herdache a sign that resilues of the meningitis are still present. With regard to examina tion of the cerebrospinal fluid Bruenings calls atten tion to the slow distribution of the corpuscular elements in the fluid which he demonstrated by the in jection of autogenous blood. He states that the in crease of pressure in the terebrospinal fluid should be tested not by the first portion that escapes but by a later portion and he calls attention anen to the dif ference between cerebrospinal fluid pressure and brain pressure. The cerebrospinal fluid pressure gradually regulates itself if there is no hypersecre tion. Increased brain pressure is caused by an in crease in volume by ordema. Increased brain pres sure may occur without increased cerebrospinal fluid ressure Withdrawal of cerebro pinal flui I does not influence brain pressure except at first. To reduce brain pressure Bruenings has she the dura widely as far down as the basal disterns after trephination and left it open five days. This resulted in reduction of brain pressure and improvement in the circulation in the brain The number of cases thus treated is still small and the treatment was not always successful but in Bruenings opinion this is the correct proce

Zeller (Berlin) on the basis of experiments with only indirect anasthetization of the central pervous system recommends insufflation of gases into the subarachnoid space with the object of removing the infected cerebrospinal fluid as completely as possible and for bactericidal and narcotic effects. He be heres that the cases most suitable for this treatment are those of diffuse meningitis in which puncture and irrigation are indicated. The injection of the gas by the suboccipital route has occasionally been followed by disturbances of the respiratory center These are probably caused by unconalized pressure and do not occur with lumbar puncture. Of the various gases used so far nitrous oxide acetylene or one of these gases conducted through ether promises the lest results. Nitrous oxide kills micro organisms but does so only under high pressure which cannot be used in these cases According to Schnitzer of the Robert Koch Institute streptococci cannot be cul tured from the blood of mice with a severe strep tococcus infection when the blood is withdrawn un der acetylene an esthesia. The cultures were sterile also in the cases of severely sentic women during narcylen narcosis The lethal or at any rate de velopment inhibiting effect of ether vapor on micro organisms particularly streptococci is known from the writings of Siegwart and of I hilipp I illing of

the subarachnoid spaces and the venturdes of the brain with introus coade and with actylene his caused no harm in Zeller's numerous animal egenments nor in several traits on human beings. Neither has there been any injury from the introduction of stream of introus votade or acets lene conducted through either of its degrees C. Her's pass whe have boiling point of its degrees C. Her's pass whe have hypotonic sodium chloride solution into the blied stream makes possible the apid replacement of the cercbrospinal hard and thus on renewed purcture an abundant washing out of the infected fluid

Schueck (Berlin) warns as did Zange against operating without strict indications in cases of frac ture of the base of the skull. In support of his attitude he cites figures from the Urban Hospital In the first surgical division he has had in the last three years 45 cases of fracture of the base of the skull with 10 deaths. Twelve of the deaths occurred within the first twelve hours and therefore were not due to meningitis. In the 7 other fatal cases there had been from the beginning severe clinical symptoms of brain injury Schueck has found that in the severe cases of fracture of the skull which end fatally there is nearly always an irreparable injury to the brain Therefore the cases to be treated surrically must be selected with care In extracerebral operation is illogical when a fatal intracerebral injury is present I rimary trephination is indicated in fracture of the base of the skull only when there is a true ring brun pressure

Drukt (Vienna) reports a case in which a bublet was retained in the skull and there were signs of brain abscass. Stiffness of the neck and severe head eaches suggested meningitis and lumbar puncture yielded pus. After the lumbar impection of lipiold and 2 injections of a oc em each of antistrephotocoms serum the cerebrospinal fluid became clear safe stiell the stupper and the headness decreased and the general condition improved but on the skulls day purumonia superviend and the patient deed any purumonia superviend and the patient deed showed the changes of chronic inflammation in the menunges, but to acute changes of chronic inflammation in the menunges but to acute changes of chronic inflammation in the

GULTKE responds briefly to the remarks made by those who discussed his paper. He states that with out doubt a current is present in the cerebrospinal fluid but it is very slow and can be influenced by position. It i doubtful whether this fact can be made use of therapeutically The use of urotropia can be traced back to Enderlen and Justi Whether urotropin is in fact very effective appears deb t able especially since it loses its activity in alkaline solutions With regard to Celler's proposition Culcke cites Schmutter > re earches and states that he be lieves gas forming substances mucht act similarly to antiseptics. At any rate an irritation from pure atmospheric air has been observed in encephalog raphy He agrees that further progress in the treat ment of meningitis will result from collaboration between surgeons and otologists

Zhaof emphasizes igain that great caution is necessary in the cases in which the diagnosis cannot be made with certaint. For this resion he is an opponent of prophilactic exposures. He state that caution is necessive, especially in operations that do not immediately follow puncture of the primary focus. He holds that large irrigations in the prod romal stage are dangerous as they may easily make the condition worse. Operation is molkened in such as the condition worse. Operation is molkened in the condition worse to operation is molkened in the condition of the tasts that progress in this difficult field is dependent chiefly on the establishment of the diag moss and above all upon early diagnosis.

SILTINER (Z)

PERIPHERAL NERVES Platt 11 On the Peripheral Nerve Complications of Certain Fractures J Bone & Joint Surg. 1928

Platt discusses nerve injuries accompanying fractures about the elbow involvement of the musculospiral nerve in fractures of the shaft of the

humerus and involvement of the external populteal nerve in fractures of the upper end of the fibula The elbow region is the most common site of simple fractures associated with nerve injury. In a

simple fractures associated with nerve injury. In a large series of cases of dual injuries collected by Lewis and Miller 60 per cent of the fractures in volved the lower end of the humerus.

The author reviews \$52 recent fractures of the elbow 4190 fit belower end of the humerus \$6.7 of the olecranon and \$7.0\$ the upper end of the radius. In the cases of fracture of the olecranon and upper end of the radius there were no nerve complications. In the fractures of the lower end of the humerus there were 12 mijuries of the ulmar nerve and 1 mijury of the median nerve? Two of the patients with nerve mijuries were operated upon and 11 recovered spontaneously. Of the injuries of the ulmar nerve of wer, associated with fracture of the infara nerve of wer, associated with fracture of the internal epicondise and 2 with a supracondist fracture.

Lesions of the ulnar nerve are of the incomplete type and due to primity contision or secondari fraction neutrits arising from three to five weeks after including the properties of the three to the three to the three three

When the first signs of nerve block are recognized the nerve should be protected from the cumulative traums of stretching by resting the elbow and sus pending all efforts at mobilization. The intrinsic muscle palsy should be treated by ordinary physiotherapy. Va. a rule, this; sufficient but in the more serious cases such as tho e with uncorrected id phytement or a stiff parallel blow which has been

subjected to repeated forced manipulation early operation is advisable. The operation should consist in anterior transplantation.

Lessons of the median nerve are river than those of theora are neve but tend to be more serious. Complete division is sometimes found. The nerve is paying the division is sometimes found. The nerve is paying the backward displacement of the lower fragment. When the involvement is slight conservative treatment may be tried for a short time but when board alsolacement remains uncorrected and particularly, when there is a superimposed sichemic contracture the nerve should be released or sutured as indicated and placed in a new bed. The prognosis is favorable even after suture if the operation is not unduly delay of the contracture of t

Musculospiral lesions are rare in supracondylar fractures. In fractures of the internal epicondyle the signs of nerve block are usually slight and transitors and spontaneous recovery to the rule. Obvously the nerve injured is the ulnar nerve. Following fractures of the external epicondyle ulnar palsy may develop years later. The accepted treatment for this condition is anterior transplantation. Prevention of late ulnar palsy in such cases lies in more efficient treat ment of fractures of the external epicondyle. Such fractures constitute about 20 per cent of injuned to the fractures constitute about 20 per cent of injuned to the transplantation occurring in childhood in the fragment cannot be replaced it should be existed.

In fractures of the olderation or unerge end of the

an iracuires of the operation of upper end of the radius nerve injury is run tradius nerve developed in a friction nerve developed in a friction nerve developed in a friction in the other in the other in posterior interosseous palsy developed twenty one years after fracture of the head of the radius and exposure revealed a small fusiform neurona. The nerve was left in situ and the distorted head of the radius removed. Strangely the operation was followed by recovery of extression. Ultra palsy one was sociated with separation of the internal epicondule. Its pathogenesis and treatment are the same as

those of fracture of this prominence It has been estimated that the musculospiral nerve is injured in from 4 to 8 per cent of fractures of the humerus In 60 fractures of the humerus seen by the author there were 3 such injuries Recovery resulted in all. In 1 it resulted spontaneously in another it followed suture and in the third it fol lowed neurolysis I rimary injury to the nerve may result from impaction by one of the fractured sur faces In the author's opinion secondary lesions due to inclusion of the nerve in callus formation are rare Secondary involvement usually results when the nerve becomes adherent to a sharp bony margin or anchored in the region of the groove If the lesion of the nerve appears to be of the secondary type conservative treatment may be tried for three or four months as spontaneous recovery 1 frequent If the condition remains stationary exploration is indicated In the case of the musculospiral rerve

such delay does not materially affect the prognosis of end to end suture. In primary minutes in which grave injury is suspected early operation is generally advisable I new bed should be provided for the nerve. In recent lesions a muscle flan may be sufficient but in old lesions the bed shoul I be lined with fascia lata

I ractures of the upper end of the fibula are comparatively rare but injury to the external popliteal nerve has long been a recognized complication. Of especial interest are fractures of the styloid process alone or of a more considerable fragment due to strong traction Such fractures may complicate dislocation of the knee During the past seven years the author has seen no case of external populted injury in fractures of the neck of the fibula but has operated upon a traction lesions of the nerve combined with fracture of the styloid process. In a of these suture was done ten days three months and three years respectively after the insury. In the first perfect function resulted after eighteen months. In the second, there was feeble power in the muscle group at the end of three years. In the third there was no sign of regeneration at the end of three years Early operation is advisable in this

type of injury In the discussion of flatt's report Lewis said that in cases in which there has been no primary operation the nerve should be explored at the end of three months if there is no distinct evidence of re covery of function The operation most frequently

indicated is neurolysis CILBERT C ANDERSON M D

MISCELLANEOUS

Bagley C Jr Blood in the Cerebrospinal Fluid Resultant Functional and Organic Afterations in the Central Nervous System Ar h Surg 1028 XVII 18

In the first part of his article Bagley reports experiments performed on dogs to produce lesions simulating those occurring in man when a small amount of blood escapes into the subarachnoid space. Lighteen dogs and twenty six puppies less than ten days old were used. The puppies belonge I to five litters and an average puppy from each litter was used as a control Whole blood from a leg vein in the dogs and from the longitudinal sinus of the puppies was injected into the cisterna magna the subarachnoid space over the hemisphere and occasionally into the ventricles. The dogs received repeated small injections at short intervals some as many as six but most of the puppies received only one or two injections

The adult dogs were restless and spastic imme diately after the injection and recovered from the narcosis slowly Some of them had convulsive seizures The day following the injection they were dule but walked about and took food. Many of them died within a few days after the last injection showing marked debility and emaciation Their be-

havior during the period they were under observa tion which in one instance extended to two months varied from moderate aberrations to severe convi-SILE SCIZIFES

The most striking clinical course was observed in the sounger dogs After the miection the puppies were less active and refrained from play and when stirred to activity they lost interest more quickly than the controls They were smaller and thinner than the controls although they are well Four of the twenty six pupiles had convulive seizures after complete recovery from the immediate effects of the injections

Consulsive seizures imme liately followed the in ection in five of the ten adult does in which the blood was injected directly over the cerebral contex and in one of the four dogs in which it was injected into the lateral ventricles. In the cases of the numbers convulsions did not occur immediately

after the intertions

I our of the twenty six puppies had convulsions after complete recovery from the immediate effects of the injection The first pupps had a convulsion twenty three days after the last injection and sur vived thereafter for thirty sie hours but during that time ha I numerous seizures The second bid its first convulsion forty five days after the fast injection and died the same day. The third puppy had his first seizure eighty days after the last injection but recovered promptly and remained fairly well for seventy two days and then died suddenly in another attack The fourth pup had seizures ninety three and minety four days after the last injection but recovered and was kept under observation for eighty seven days during which time he had no convulsions but was aggressive and all tempered

He was killed in a fight with another dog The seizures were all similar Leginning with fire twitching of a muscle group and spreading over the entire body The animal soon lost consciou ness and Before the los of consciousness the facial expression showed marked anxiety. Following the

attack the animal was dull and stupid

Some of the puppies hal twitchings without con

vulsions and six of them died without either twitch ings or convultons

In the cases of six puppies and one dog necrop y revealed well marked dilatation of the ventucles although there had been no clinical signs of the condition

The microscopic study of the brains showed meningeal thickening where the blood came in con tact with the membranes In the cases of the dogs killed soon after the last injection i.e. in the acute stage of the reaction the meninges showed market cell probleration. In some cases the thickened meninges contained a large amount of fibrous tissue. One photoms rograph included in the article show the meninges of a sulcus in active cell proliferation extending into the cortex at the site of a blood ves el The meningeal reaction tended to subside and in some disappeared as the blood disappeared from the fluid. After several weeks the cellular elements were less numerous in the meninges but a large amount of fibrous material was present and later in the course of the meningeal reaction changes were observed in the structure of the cortex.

I welve of the puppers died as a result of the in jections eight were killed for histological study and six are living and apparently well more than one

year after the last injection

The second part of the report consists of brief histones of twenty seven cases of bloody crebro spinal fluid. The discussion does not include cases with large blood clots. In most of the cases the condition was the result of trauma but in two it was due to congenital venous anomalies in one case to a tumor of the brain which was present at birth and in five cases to an amourism of the anterior cerebral arteries. In the cases of four patients who was probably arternosclerosion be determined but was probably arternosclerosion.

Attention is directed to the importance of cerebrial rauma without displacement of bone. The author states that even a small blood clot may result in englepsy or traumate insamit. Symptoms following the escipe of blood into the cerebrospinal fluid depend upon the amount of blood and var from slight headache to severe pain with convulsive securies and loss of consciousness. The most important signs and symptoms in patients with a small quantity of blood in the cerebrospinal fluid usually appear after an interval of a few days and are due to the reaction of the meninges. They may gradually subside as of the meninges. They may gradually subside as place but in the case, of infants who are not treated music rigidity and endiesely frequently desired.

The treatment is a med at removal of the irritating blood and the prevention or relief of meningitis. This is best accomplished by drainage of the fluid by lumbar puncture decompression or the formation of a bone flap GITERRY C ANDERSON M D

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Trinca A J Abnormal Hyperplasia of the Female Breast and Its Relation to Tumor Formation Wed J Australia 1928 1 732

The titology of hyperplavia of the linears seems bound up with the remitable and sensitive restion of the breast to stimulation. During menstruation willing of the breast with or without 1 nin and tenderiese is common and occasionally there is a diffinite secretion from the inple 1 in both sees the second of the second of

localized breast thekening may result from chronic mechanical irritation and reperted trauma. In the cases of girl and young women they may be treated conservitively if there is a history of mechanical or other stimulation. The use of onit ments or any form of treatment that involves rub bing; to be condemned as mechanical stimulation.

will promote secretion

I or the removal of specimens from thekenings in the breast for microscopic examination the author induces investhesis with nitrous-oxide oxigen as with this form of anasthesia the patient can be kept in a light and safe state of narrows for a sufficient time for several pieces of tissue to be sectioned and examined.

In the treatment of cysts age is the dominant factor In the cases of young women especially, if the condition is blatteral conservative surgers constigning the greater of the condition to the condition that the condition that the condition of t

TRACHEA LUNGS AND PLEURA

Brown R C Bronchlectasis in Children The Pseudo Robust Appearance in Gases Asso clated with Nasal Accessory Sinus Suppuration 11 to R v Soc Mrd Lond 1928 xx1 1509

The author calls attention to the frequency of the association of antial for more rarely other association of antial for more rarely other association of antial for more defensions of the formation that there is a typical faces in these cases. The patient appears health even robust on casual observation and except in cases with the typical adenoid faces which is a rare accompanisment of the condition the face is broad because of the large size of the antial cavities and the upper risks.

In the treatment any masal obstruction should be corrected and antical or other sums supportation cleared up by conservative or if necessary taked cleared up by conservative or if necessary taked and a non-older transcription of the conservative of a new force of the conservative of th

LICEN M MORA M D

lee W. F. Tucker G. and Clerf L. Postopera tive Iulmonary Atelectasis. Inn. Surg. 19 S. Lyxxii. B. W. L. C. Tucker G. and Parder

Lee W. E. Raydin I. S. Tucker G. and Pender grass E. I. Studies on Experimental Pul monary Atelectasis. Aun. Surg. 1928. 183334. 15

IFF TICKER and CLERF. The nuthors believe the true etological factors in postoperative pel monary complections are the phenomena of put monary collapse of varying digrees together with pulmonary embolism and infarction. They agree with Masters that over 7 per cent of the so-called postoperative and postanarshetic parumonias are avaring degrees of infectious. They state that missive attelectast involving more than one lobe of the fining is usually mistaken for pleural effusion on prema or pneumothorar. Lobar attelectasts involving more than one lobe of the sit disposed as board post of the state of the site of t

In a study of thirs, three cases of postoperature massive atelectasts to determine the cause of the condition two factors were found to be emutated in a condition that the condition of the condition that can be expected to the condition of the dependent portions of the bronchial tree until at some point or points it completely occlude the lumes. If the occlusion takes place in a small man bronchial test that the condition of th

lung massi i itelettisis develons

tring mass C treactives develops
Archibold found that after a number of coughes
a jells stimulate! by mechanical irritation of the
phary as substances of the con intency of inner
or the control of the control of the control
or the control of the control of the control
or the terminater into the lung and probably
greater consistency and viscosity can substance and
sputum are expelled by the first exprancy first
conceivable that when the viscosity of the bronchel
secretion is not sufficient to in ure complete
up all on by the expiratory cough nor sufficiently
find for the secretion to be durant into the terminal

bronchioles it will move back and forward at ex piration and inspiration and definite waves will be created on its surface. At the point where the expiratory and inspiratory waves meet there is a piling up of the viscid bronchial secretion into waves which on reaching the opposite wall of the bronchus completely acclude the lumen

Clinically the authors have demonstrated that if the obstruction can be overcome by making the patient cough by changing his position as suggested by Santee by vigorous shaking or in the cases of young children by spanking and an airway can be established past the point of obstruction the patient may temporarily at least free the bronchini tree of large masses of secretion and thus re-inflate the pulmonary tissues. In eight cases in which the authors found it necessary to aspirate through a bronchoscope the aspiration was followed by im mediate reinflation of the lung distal to the obstruction

The authors report a case in which massive ateler tasis developed after a radical inguinal hermiorrhaphy performed under ether anæsthesia administration of the anaesthetic there was more mucus in the respiratory tract than usual and about twenty four hours after the operation breathing became peculiarly distressing and strained because of pain in the operative wound. The temperature then began to rise and complaint was made of a slight midsternal pain. Forty two hours after the operation the respiratory symptoms were still more marked and there was a distinct displacement of the heart to the left The clinical diagnosis of atelectasis

was confirmed by roentgen ray examination hours after the onset of the clinical symptoms (lerf drained through the bronchoscone from the left main brochus o c cm of thick tenacious bronchial secretion which gave a pure culture of pneumo cocci The bronchoscopic drainage was followed

by immediate relief The material removed was kept on ice for twenty four hours and then introduced into the main bronchus of a dog In order that all of the suspected etiological factors might be p ovided the dog was narcotized with morphine and anasthetized with ether and an operative incision was made into the abdominal cavity and closed surgically. Then 7 c um of the secretion removed from the patient were introduced into the right main bronchus Coughing an I struggling followed which drew the secretion into the deeper portions of the bronchial tree. At this point 250 mgm of sodium amytal were ad ministered intraperitoneally to eliminate the cough reflex With the loss of the cough reflex respirators efforts became deeper and the entire mass of bronchial secretion was drawn into the right bron chus \ few minutes after the complete introduction of the bronchial secretion an I following the removal of the bronchoscope definite respiratory di t es de veloped. This distress was often so marked that it seemed that the dog was about to die Finally however the respiratory movements became regular

and thythmic although because of the amytal they were slow. The movements of the right side of the chest became restricted while those of the left side were greatly evaggerated and there was a distinct bulging with a visible increase in the size of the left half of the thoracic cavity. After three hours mentgen ray examination reveiled complete atelec tasts of all of the lobes of the right lung with trans position of the heart of the right beyond the spine So far as the authors are aware this is the first

successful attempt in which the obstructing bron chial secretion from a clinical case of postoperative massive atelectosis was used to produce the condi-

tion in an animal LEE RANDIN TUCKER and PENDERGRASS The

authors report in detail five experiments in which nulmonary atelectasis was produced in dogs. One was the experiment described in the article by I ee Tucker and Cleri above. In the others, the ma terial introduced into the bronchial tree was acacia solution similar in its viscosity to the secretion found in clinical cases C O Heiston, M D.

Joannides M Surgery of the Lung Care of the Stump in Pneumectomy and in Lobectomy te h Sure 1028 XVII of

In 1909 Meyer summarized the main steps in the various operations on the lung that had been devised up to that time as follows

The application of a single mass heature around the bronchus and its vessels amputation conterization of the mucosa of the stumps with pure phenol or the Paquelin cautery

The application of a single elastic mass ligature around the hilum and removal of the lung at a second procedure ten days later

3 Ligation and division of the main bronchus with suturing of the remnant of lung tissue over

the stumn 4 Isolation and temporary clamping of the bronchus curettage of the bronchus the applica tion of a tight silk ligature the application of a loose

catgut ligature more centrally around the bronchus A method for pneumectomy which Meyer has found successful consists of the following steps (1) isolation of the bronchus (2) clamping and crushing of the bronchus (3) ligation and amputation and (4) burying of the stump and the insertion of top

situres In an ingenious technique he devised for lobectomy Lilienthal applied a chain of pedicle suture ligatures and then excised the lung leaving a generous stump The ligatures were left long and were included in a rubber dam pocket which prevented the remaining intrathoracic viscera from coming into contact with the stump After this procedure the rubber dam

and the ligatures sloughed out leaving a healthy In the surgical treatment of the lung hamostasis is the least troubl -one factor. The success of oper ation depends upon the formation of a completely air tight stump As the respiratory movement of

the lungs causes contiguous lobes to interfere it is necessary to pack the lobes away with wet gauze so that injury will not be pro luced. Sometimes even a slight puncture with the needle or the tip of the knife causes troublesome leakage of air and blood necessitating suture of the lung. Other unfavorable factors are increased intrathoracic pressure from the thoracotoms opening a sudden chappe in the temperature of the intrathoracic organs manipula tion and exposure of the pleural cavity and dis turbance of the vagus and phrenic nerves more quickly the operation is performed the better the chance for recovery

Joannides describes a technique for pneumectomy which may be completed in twelve minutes under artificial respiration. An incision is made parallel with the ribs and the platysma and late simus dorse are inci ed in the direction of their fibers. The pleura is then punctured the opening being enlarged by the fingers or a blunt instrument and a rubber covered intestinal clamp is applied to the hilum with pressure sufficient to control hymorrhage and leakage of air. The lung is then cut a wedge shaped piece of tissue being left to cover the stump and the bronch; and large vessels are isolate I and heate I The lung to sue is sutured with a running suture begun at the middle first on one side and then on the other in such a way as to bring the two sides of the wedge into apposition. After this suturing has been completed the clamp is removed and if hakage of blood or air occurs interrupted sutures are applied The stump is then closed and dropped into the chest and the wound is close? In some experi ments the phrenic nerve is cut just before the chest is closed in order to cause paralysis of the diaphragm and thus reduce the danger of suction through the stump Three fine wires are used to aid the approxi mation of the ribs Care is taken not to handle the heart or the pericardium any more than is neces sary as even the slightest handling has caused definite irregularity in the cardiac rhythm

Lifty four partial or complete pneumectomies were performed on dogs Vine of the dogs operated upon in the earlier experiments died on the table All of them showed evidences of pleurs! irritation with a greater or less amount of exudation. In dogs that died during the first ten days after the opera tion the chest was found full of serosanguinous exudate which would not clot either within or out side of the chest. In one experiment necrosis of the stump with infection and leakage resulted because an undue amount of strength was used in tying the suture In all cases a thickening of the pleura around the stump was found Thickening of the pleuta and adhesions are important factors favoring a good

result The method d scribe I has been found sati factors in experim nts on the dog. It provides a stump which eventually becomes strong and I revents per foration of the bronchus The procedure is simple does not require any special instrument and can be finished in the shortest possible time. It provides

for the approximation of en fotbehal surfaces similar to that of trined in operations on the gastro-intestinal tract or the blond sessel MERCE R. HX > MD Hart D Acute Empyema Treatment by Contin

your Tidal Irrigation and Drainage Dependent on Normal Respiratory Movements 4rch S 2028 3311 202

The advantages of the closed method of drama and irrigating an emptem t casity are summarized by the author as follows

t The method is simple and easy the in critical of a tube through a trocar under local angethe is requiring only a few minutes

2 The pressure within the cavity can be relea of at any desired rate

a I ittle care in the form of dre ing is necessary

The cavity is not continually sucking air So long as the juncture of the tube with the wall of the chest is air tight suction can be applied the pressure within the empyema cavity bei

thereby reduced below the surrounding atmosphere pressure and the size of the cavity d crea ed by the resulting expansion of the line

The arguments against the procedure are that the drainage is invilequate an I the pus which becomes thick and the fibrin which collects in the tube can e a damming up of the infecte I fluid within the chest Among the minor disadvantages are the presence of thi ki us which makes irrigation of the cavity slo and difficult the tendency as healing progres es to overdistend the cavity which is tending to collap e the leakage of pus aroun t the tule which demand frequent dressings and the plugging of the tube which causes almost continuou irritation and annovance to everyone concerned with the care of the patient

I he irrigation apparatus used by the author con si to of a subber tube which is nas ed into the dependent part of the emprema cavity through a trucar thoracotomy wound and just outside of the chest is connected by me ins of a T tube with a rubber bag on one si le and with a rubber tube leading thr ugh a Y tube to an irrigati n bottle above and a drainage lottle belov on the other side The rubber big is strapped to the abdomen in t below the trocur thorscotoms wound and slightly below the level of the emprema with when the prtient i in lowler's position. This gives a slight amount of suction at all times

Larly in the treatment when the cavity is large the fluid within the bog should be renewed every hour in or ler to keep the pus relatively thin I afer when the cavity has become small in I clean it is necessars to reall the big only a few time in twent)

The continuous movement of the fluid prevents the congulation of fit rin and like king of the tub In all ca es the cavity has ben kei tele in the drain age fluid at no time even with suction leing too thick to allow the rea ly transmi on of light through the glass connecting tubes

Whenever desired suction may be applied to the cavity the nature of the residual fluid in the cavity determined and the cavity irrigated by allowing clear fluid to flow in when the suction is released

In the treatment of acute emplems complicated by bronchal fistula: the author uses a flash, partrilly inlied with irrigating fluid and connected by in opening at its dependent part to a short tube entering the empyema can'ty. An irrigation bottle is connected with an opening at the top of the flash, while through a cork is passed a tube opening to the out side air and a uphon extending from the bottom of the flash, to a drainage bottle.

The adva tages of the continuous tidal irrigation method are summarized as follows

t The trocar thoracotomy subjects the patient

to the minimal operative procedure

2 As the irrigation tube practically never becomes
plugged there is no obstruction to free drunage

3 There is no large raw surface to become in fected by the continual soiling at the time of and following operation

4. As there is only late and negligible leakage around the tube in the thoracotomy wound dissecting infections do not occur and the necessity for dressings is practically eliminated.

Suction can be applied as desired when expan

som of the lung is slow after long compression

6 The apparatus which is used in cases with a
bronchial fistula permits the immediate escape of
air from the drainage system without allowing air
to enter the chest or disturb the suphoning action

7 The closing of the empyema cavity is more rapid than after early rib resection and open drainage Merle R Hoov M II

MISCELLANEOUS

McIlraith C II Turner W and Hicks J A B Thoracic and Abdominal Streptothrix Lancel 1928 ccxv 68

The patient whose case is reported a woman tenty four years of age attended a football game on the alternoon of December 12 1935. That eve may she felt cold and throughout the night she suffered from attacks of vomiting. The next morn up she felt better but in the exeming the committing recurred and was accompanied by pain in the about the patient was seen by McIlrath Jate and the patient was a seen by McIlrath Jate and the patient was a possible and the patient was a possible with the patient was seen and the predict report of the patient was seen the predict report.

The pain continued but the vomiting ceased on December 14. On December 6 a distinct swelling could be felt in the appendix region and the temperature was 98 8 degrees. F in the morning and 92 degrees F in the vening

On December 13 the appendix was removed in a state of early gangrene. After the operation con valescence appeared to be progressing normally for

ten days but on December 28 febrile symptoms developed and complaint was made of pain in the right lumbar region. The temperature continued to use and the pain to increase

On January 4 19 6 the right periner hric region was explored but nothing abnormal was found. This exploration was followed by a steady decrease in the pain and temperature until March 8 when pain developed in the suprapube region and the temperature rose to not depress? If Cook backluria fever then gradually subsided and the unne became backlus free.

In the latter part of April the patient went to the seaside and while there had a recurrence of the pain in the right lumbar region accompaned by fever When she was brough home examination showed 'n marked diminution of movement in the right side of the chest and a decided bulging of the lower ribs on that side Exploration of the chest revealed thick blood stamed puts

Turner saw the patient for the first time on May 26 On May 28 under general anæsthesia a needle was introduced into the ninth interspace in the nipple line and blood stained pus was with drawn When portions of the eighth and ninth ribs were removed an abscess the size of an orange which opened into the pleura was found. The lower wall of the abscess was dome shaped and smooth. No communication through the diaphragm could be discovered although the liver duliness was definitely greater than normal Actinomy cosis was suspected and on bacteriological examination of the abscess contents this suspicion was confirmed. The abscess drained well but the temperature remained high and there was no improvement in the general con dition

In the middle of July a new swelling developed in the epigastrium and over the margin of the ribs and on July 3n Turner opened a second large abscess evidently situated between the liver and the diaphragm From the contents of this abscess a vaccine was prepared and injections were given every five days beginning with a dose of I minim The strength of the vaccine was 1 mgm per cubic centimeter The only apparent effect of the vaccine treatment was that the granulations of both on erative wounds increased greatly and became ve y vascular On August 12 12 minims were injected the granulations were painted with a mixture of brilliant green and methyl violet in equal parts in a 5 per cent solution of alcohol and the abscess cavity was packed with strips of gauze soaked in the same solution

On August 24 1 c cm of the vaccine was given and it was decided to discontinue the large doses of todded preparations which throughout the illness had been given by mouth because no intravenous in jections could be made as it was impossible to distend any of the superficial veins sufficiently.

that date the patient was seen by Symonds There

was then a bulging in the side behind the first on critive wound and the formation of another abscess in this position seeme I probable. It was decided to continue the vaccine treatment and await further developments Twenty minims were given on September 28 and 22 minims on October 1 On the latter date the temperature reached normal for the first time since April and after October a it showe? no c ening rise. The granulations had by this time completely disappeared leaving a healths sinus from front to back an I the swelling in the side was much smaller The vaccine was injected weekly until the end of October and then every two weeks By November 4 the sinus had cle ed Thereafter vac one treatment was continued at monthly in tervals until June 2022

The patient is now in perfect health and able to

carry on her duttes as a mas cuse

Hicks learnbes the preparation of the vaccine as follows

I fairly abundant growth of the streptothers was obtained in glucose broth under anaerobic con ditions (Macintosh and Lildes 121) Subcultures (fortunately luxuriant) were only obtained on the first occasion all attempts to raise a second series After centrifugalizing down from the broth cultures the strentothrix was washed several times in aline. The supernant saline was remove ! from the last washing as far as possible to the last drop the resultant wet mass being groun I up in a small sterile agate mortar. This squeezed out a certain amount more fluid which was dried off in an wen taking great care not to dry out the mass com pletely A slightly moist mass resulte I which could he weighed and an original stock suspension was made up of a strength of a mem per cubic cents meter of which the nations had an initial dose of oos mgm in lugust Later on (October) in the course of the disease the stock was increased to 4 mgm per cabic centimeter

Melleath has seen a number of cases of strepto thrix injection of abdominal and thoracic regions but has never seen one clear up on sodine or todides

In the case reported the brilliant green and methyl sodine mixture kept the wound clean and lessened the exuberance of the granulations but there was evidence that the vaccine was the deci ling factor in the cure Soon after the vaccine was started the granulations became vascular and large a sign of progress in healing as the granulations in streptothrix infection are not parti ularly vascular Moreover in the latter part of September a swelling was developing in the region of the original operative wound At this time the vaccine had been pushed up to 1 mgm of the streptothrix mass and im mediately after this dosage was reached the tem perature began to approach normal and the swelling to subside The i creus in the dosage was con tinued systemati ally and carefully until the pa tient vas taking 4 mgm of the streptothrix mass Apparently therefore large doses are easily tol JOHN J MALONES MID erated

Alexander J A Brief Survey of Thoracic Survey J Michiga i State M Soc 1028 resid acr The author discusses the fly the surgery of em Dyema pulmonary tubercul sus bronchiectasis line

abscess and cancer of the resonhagus

He states that the main reason for the gravity of acute emprema is probably that the conlition is not dragnosed until too late Before adhesions have formed the treatment indicated is prompt and re peated needl aspirations of the flui or pref rably the air tight introduction, through a cannola of a drainage tube and a small r tube for frequent anti septic arrigations. In the cases of children such treatment is usually sufficient, but in the cases of adults rib res ction is commonly necessary later The principal avoi lable cause of chemic emoveman improper drainage. The drainage tubes hould be or be removed until the intrathoracic cavity has been enturely obliterate 1 In a large majority of cases prolonged adequate drainage and antisepti 17191 tions of a chronic cavity that has been inadequately drained result in a marke I decrease in the six of the cavity of its complete di appearance. Cavitas that ful to close under this treatment require radical surgical measures to permit the lung to expand to the chest wall or to bring the chest wall down to the

collapsed lung In pulmonary tuberculosis, the purpose of surgical treatment is to place the diseased lung at rest from its constant respirat by movements and more or ess to obliterate the cavities that are often present The simplest method of obtaining compression of the lung is artificial pneumothorix. In cases in which pl ural a thesions present adequate compres sion of the lung phrenicectoms will often bring about the desired result Extrapleural thoraco plasts compres es the lung and to be u ed when other methods are not available. In the cases of three patents who were not proper subject for thoracoplasty Mander obtained good results by combining phranicectoms with removal of the posterior sections of eight or nine intercostal nerves thereby causing respirators quiet and a certain

amount of lung compression or relaxation In bronchiectasis and lung absc as surgical treat ment is indicated when cons reative treatment fails to cause improvement. The surgical measures usually

to be considered are r Artificial pneumothorax This gives its be t

results in recent suppuration near the him n a Phrenicectomy in licat desix cially for I sion in the lower half of the lung

3 Cautery drainage through the chest wall Tais is indicated for perioderal lesions

In chronic cases extensiv extranh ural thoraco plasty or extrapleural pneumoly 1 is indicated

With regard to cancer of the esophague the author states that technically satisfactory methods for resection of the cervical or thora ic portions of the resophagus have been work dout and have been

used successfully in about six cas s RALP & B BETTHEN MD

SURGERY OF THE ABDOMEN

GASTRO INTESTINAL TRACT

Bolton C The Interpretation of Castric Symp toms I The Mechanism of the Production of Pain II Analysis of Cases of Pain Inct

1)29 CCKIV 1159 1217 1 63

Cases of dyspensin are classified clinically accord ing to groups of symptoms each of which is the clinical expression of a functional disorder of a particular part of the stomach. The causes may be organic or not The cases are divided also into those in which the stomach is structurally normal and those in which it is structurally abnormal classification is based on a study of 1 000 cases of gastric disturbances in which the stomach was capable of performing and periodically did perform its functions normally

The symptoms constituting dyspensia are due not to an alteration in the secretion of gastric juice but to alterations in the motor function of the stomach Visceral symptoms in general are almost entirely muscular in origin. Muscular sensitions are classified into two groups (1) minor sensitions such as di comfort and a sensation of weight and fullness and (2) pain. The difference is only in the degree of the intensity of the stimulus which de pends upon the stability of the nervous system Stretching acts as a stimulus to smooth muscle and if it is gradual the muscle elongates to some extent At a certain point however contractions begin Ram I tonic and thy thmic contractions begin at once but finally cease if the stretching process is kept up is in acute dilatation the stomach may be stretched to enormous limits without pain. In atonic conditions of the stomach there is no main because the muscle fiber is unable to recover its normal tone I ayne and I oulton believe that when the walls of an organ are stretched all of the struc tures forming it muscle fiber and nerve endings take up the tension and that pain is due to stretching of the nerve endings that sub erve the sense of pain If the muscle contracts it overcomes the stretch and takes the strain off the nerve endings but the tension in the muscle fiber is further increased by this act \ \ muscle may lengthen or shorten without appreciably lessening or increasing its contraction tension I he bo is of the stomach is able to accom mo late itself as it is filled by a lengthening reaction and similarly as it empties and its contents diminish in volume by a shortening reaction. Any interference with the postural adaptation of the muscu luture re ults in an increa e in the contraction ten sion of the fibers and discomfort or pain. Inter ference may be caused by arrabality of the neuro muscular mechanism by too rapidly filling or by a decrease in the tone of the muscle

The minor sensations felt in dyspepsia are all local and merely an exaggeration of the normal feelings experienced by healthy persons They never radiate

The areas in which the pain of dispensia occurs are asophageal and gastric The former extends from the root of the neck to the ensiform process and is further divided into an upper and lower part by the sternum at the level of the fourth costal carts The latter includes the area between the ensiform process and the umbilicus The sterno umbilical region is divided into three parts an upper middle and a lower portion. Early pain at the highest level suggests disordered action of the resorbagus and late pain at the lowest level dis turbance of the pylorus, while symptoms occurring in an intermediate position either early or late sug gest a disorder of the mechanism of the body of the stomach

In cases of chronic dispepsia periods of relative or absolute freedom from pain occur from time to time. It makes no difference whether the patient is suffering from an organic lesion or from a simple functional disturbance. The free intervals are due to treatment or re establishment of the normal stability of the nervous system by rest etc

From a study of 715 cases with pain in various

areas the following conclusions are drawn

There is no difference between minor sensa tions and pain as regards their significance, the one merges into the other and they are both due to ab normal contraction tension of the muscle fiber

2 The position of the pain and the time of its onset after eating definitely indicate the part of the apparatus affected and the mechanism di ordered

3 I vloric pain occurs across the abdomen in the transpyloric line as a band or as a localized area in the center or at one or both ends of this line where it cuts the costal margin across the abdomen between the transpyloric line and the umbilious as a band or an isolated area in the center but quite as frequently to one or the other side particularly the right and behind from about the eighth dorsal to the second lumbar spine The pain characteri tically occurs late in the digestive process

4 In disorders of the body of the stomach and the lower part of the esophagus the pain occurs between the transpyloric line and the line of the fourth costal cartilage as a band or localized area in the center or to one side particularly in the mipple line or along the upper costal margin. Pain between the transpyloric line and the ensiform definitely in dicates a disturbance in the body of the stomach and pain above this area a disturbance in the lower esophagus but esophageal pain may encroach on the stomach area to some extent Behind the pain ful area occurs opposite the lower two thirds of the scapula and extends down to about the tenth dorsal spine. In disturbances of the body of the stomach the pun occurs either in the early stage of digestion irregularly or in the later stages, although not of later is pylone pun. Essiphageal pain is less likely to occur late thin early or irregularly.

5 Disturbances in the upper resophagus are associated with pain above the fourth costal critilage in front usually in the center and sometimes opposite the upper two thirds of the scapula behind. The pain nearly always occurs soon after food is

taken or stregularly

6 In neuropathic patients the exophagus and body of the stomach are the parts most likely to be affected

7 As the mildly progresses most cases tend to show an increasing irritability of the nervous system Accordingly, there is no sharp line of demarcation between dispersia in a person of average nervous stability from that in a neuropathic person

Bolton discus es pain also from the standpoint of its relief by emptying of the stomach and its relief by food The conclusion is drawn that pain may be relieved by food whatever part of the apparatus is affected and at whatever time the pain occurs Complete relief is much more likely to be obtained when the pain begins late whatever part is affected but pyloric pain and its secon lary consequences on the body of the stomach and ecophagus are most likely to be relieved. I am occurring early or arregularly after the angestion of food is unlikely to be relieved by food or is relieved by it only temporarily or partially If over action of the neuro muscular mechani m is the cause of gastric pain at various stages of digestion cessation of this over action relieves the pain. It has been shown that a mechanism for inhibiting the muscular movements exists and is brought into play in the normal filling of the stomach. This normal inhibiting mechanism must be called into action also in the condition of irritability of the stomach but with varying degrees of success according to the ability of the muscle fiber to respond normally I rimary cardiac and orsophageal disturbances in which irritability is most common are le s likely to be relieve i by food than pyloric disturbances. The later the pain begins the less irritable the neuromuscular mechanism and the better it responds by a lengthening reaction to the introduction of food Therefore the pyloric type of case 1 usually relieve t more easily

Eructation is due to excessive pressure in the stomach in relation to the tone of the cardiac sphinicter. The miterial eructated depends upon the contents of the stomach. Acid eructation is more common in pyloric than in cardiac or a cophageal.

disturbances

Nomiting relieves the symptoms if the stomach is completely empited unless there is marked nervous irritability of the stomach. It is of the same frequency in pyloric and car live disturbances.

Uncomplicated ulcer on whichever side of the pylorus it is situated causes the same irritability of

the sphineter and therefore pylonic pain. Irritability of the stomach may arise as a reflex effect from some other organ especially the gall bladder and the intestines.

I rom a consileration of the position the time of onest and the relief of pun the conclusions is drawn that cases of dyspersus may be divided into three main groups—the pilore the cardiac and the coophageal syndromes—and that each of these syndromes has several subtypes. There is clinical evidence that pyloric disorder produces backward effects upon the body of the stomach and the ersophagus and that cardiac disorder everts an effect upon the body of the stomach and the ersophagus. If the patient has neuropaths are some the body of the stomach and the resophagus are more likely to be distributed than the piloric region. The chef clinical phen mena of these types of disorder are as follows.

I Jone syn frome I am begins in the plore, are during the later stages of digestion and is accompanied by secondary cardiac symptoms either as pain. In some cases continuous cutter signal in some cases continuo occurs. I John pain may be absent and secondary cardiac symptoms alone may be present. In all types of cases cructa tunas and secondary cavophiged is improns common yet occur. The symptoms in all cases are clieved by

Cardus syndrome I am or fullness begins in the cardual rate during the early tages of digestion moderately late or irregularly. In some cases the pain is accomprised by comming Secondaries symptoms are common and the fload eructute I is more likely to be butter or neutral than acid. The symptoms may or may not be relieved by

Crophageal syndrome The resonhageal syn drome is either primary or secondary and con ists of pain or one of the minor sensations in the asopha geal area The upper and lower parts of the cesoph agus differ in that the symptoms of disturbances of the lower part show to a considerable extent a time relation to food imilar to that of disturbances in the body of the stomach whereas the symptoms of disturbances in the upper part usually appear quite early or irregularly. The symptoms of disturbances of the lower part may or may not be relieved by food but the relief of symptoms of disturbances of the upper part is usually only temporary or partial Vomiting of the same nature as that of the cardiac syndrome may occur from the regurgitation of fluid Disorders of function due to local disease not

altering the stomach structurally are of the same nature as those caused by the idopathic malado affecting the same part of the stomach. Disorders of function due primituly to refler irritability of the stomach are also the same as the of adiopathic origin and affect one or another 1 irt of the stomach chieft but not exclusively

The causes of the pyloric syndrome may be in digestible and irritating food hyperacidity of the gastric contents and instability of the nervous system. The reflex mechanism controlling the plorus may be rendered unstable by (1) a direct effect certed upon the meson from the color or gastris. (2) reflex the central nervous system that the cause the effect produced is the same the profess is interfered with hist in its capacity of regulator of the output of food and next in its capacity of regulator of the acidity of the gastric contents. It regulates gastric acidity by relaxing and permitting the regulators of the district contents are professionally and the contents of the contents are contents as a content of the contents o

The cause of the cardiac syndrome are the bottom of food which does not allow the stomach to accommodate itself to filling in a normal manner and intrability of the neuromuscular mechanism or atom. When the stomach is filled too rapidly the muscle hiers are unable to undergo the normal lengthening reaction and react too strongly with the result that the intragstance per sure ruse the contraction tension is raised and a sense of fullness is nonduced. With increased irritability the metal in the strong of the contraction tension is raised and a sense of fullness is nonduced. With increased irritability the metal in the contraction tension is raised and a sense of fullness is nonduced. With increased irritability the metal.

nı m ıs much the same

The function of the body of the stomach during gastric emptying is to maintain a constant pressure upon the food which keeps the pyloric vestibule full The pre sure in the body of the stomach is maintained at a constant level by the capacity of the muscle fibers to undergo a shortening reaction without any increase of their contraction tension When the neuromuscular mechani m is irritable these movements are exaggerated there is a general increase in the tonic contraction with an increase of the variation which in some cases amounts to gastrospasm The earlier the pain begins the more likely it is to depend upon irritability of the central nervous system and the later it appears the more it depends upon the irritating acid contents of the stomach Alkalies will relieve the symptoms in these cases

The esophageal syndrome is caused by the presence of injunds gas or solid material which give rise to reflex tonic rings and peristalss. Their preence is caused by regurgitation from the stomach or abnormal deglution. The regurgitation may be brought about by an increase in the intragastric press ure or the external pressure.

JOHN A WOLFER M D

Gatewood W E Gaebler O H Muntwyler E and Myers V C Alkalosis in Patients with Peptic Ulcer Arch Int. Med. 1928 xl. 79

The first detailed observations concerning the in toxication produced by the admini tration of large amounts of alkuli in the Sippy treatment were proted in 1923 by Hardt and Rivers who called attention to the fact that patients with luodenal ulter treated by this method may develop definite symptoms of toxicities associated with renal changes increased blood urea and normal or increased com

buning power of the plasma. Soon thereafter Brown Rowatree and others from the May o Clinic published a report concerning toxemia occurring in yallow and duodenal obstruction. They stated that duo denal toxemia is characterized by a clinical syndome unnary changes pathognomous changes in the chemistry of the blood a decrease in renal function and in cases of death pathological changes in the kidney. A comparison of the findings of duodenal toxim awith the toxemia encountered in the alkaliest that the alkaloss might be quite as important an enlogical factor in the toxemia of duodenal obstruction as the supposed specific town absorbed from the gastro intestinal tract.

As sodium bicarbonate is re-ponsible for the alkalosis in most instances an effort has been made to neutralize the hydrochloric acid by other antacids Greenwald suggested tertuary phosphates of mag nesum and calcium Symptoms of alkalosis were not observed following the use of these salts although they were shown to act efficiently in neutralization.

the hydrochloric acid

The earlier reports on alkalosis did not include the estimation of the hydrogen in concentration of the blood although when the carbon diovide combining power was estimated it was found to be high Apparently the first determinations of the hydrogen to concentration of the blood in alkalosis due to the administration of sodium hearbonate were made in constitution of sodium hearbonate were made in country to be 7.5 powns; the presence of union pensated dilalosis. Later Kast and others reported observations in twenty cases of alkalosis in which the highest hydrogen ion concentration in the blood was 7.6

Poisoning by sodium bicarbonate causes nervous ness and irritability followed by headache nausea womiting vertigo aching pains in the muscles and the joints weakness progressing to absolute prostration drowsmess from which the patient can be aroused only with difficulty and finally tetany and convul

sions

Uræmic symptoms with epileptiform convulsions occurring in pyloric obstruction in patients who were not given alkalies were attributed by Houghton and Venaleles to loss of hydrochloric acid in the vomitus and a toxic degenerative nephritis with retention of These writers emphasized the nitrogen retention in the blood rather than the alkalæmia Their laborator, data included only figures for the blood urea. In all of their cases the blood urea was elevated By some the toxic nephritis has been attrib uted to a specific toxin entering the circulation from the wall of the obstructed duodenum but the increase in the urea and non protein nitrogen in the blood has been observed in marked alkalosis in patients both with and without obstruction It seems likely that at least a part of the increase in the non protein nitrogen is due to a systemic change with excessive protein destruction rather than to renal retention although in most severe forms of alkalosis a well

26

defined nephritis occurs as one of the complications of the intoxication

In a recent study of forty one cases of peptic uker under Sippy treatment Jordan found that in the small percentage that presented clinical signs of islademan the earbon drovi te content of the blood showed a market rise the religion content tended to rise and the plasma chloric decreased. The level of the carbon divide content at which symptoms repected in these cases was 70 per creat by a bloom to the content at which symptoms are superiored in these cases was 70 per creat by a bloom to the content at which symptoms are superiored in these cases was 70 per creat by a bloom to the content at the cases was 50 per creat by a bloom to the cases was 50 per creat by a bloom to the cases was 50 per creat by a bloom to the cases was 50 per creat by a bloom to the cases was 50 per creat by a bloom to the cases was 50 per cases the cases 50 per c

In a stedle of forty secresse of peptic ubler treated with alkiles (a test sood in this seconties found a definite correlation between the alkalarma and a group of climarids symptoms that were theirs nervous in character. In about two third of the cress the blood at some, time showed a high carbon dievide content or hidrogen ion concentration or I than all tentro me showed an uncompensated alkala is (i dectrometti hidrogen ion concentration values of a gray or above miss between a relatifie in the climarid and the second of the concentration of the second of the content and the second of the secon

In a study of the Jisama chiertes it was found that in tear ex- im which the cathon disside content was high the Jisama chlorides averaged 555 mgm per sociem 35 compared with an average of our mgm infitteen that see made in ex- easier house for mgm distinct value which we have supported with a metal way to allow the difference being 33 mgm Chinically the disagreerable symptoms of what has been supported by the disagreerable symptoms of what has been supported by the disagreerable symptoms of what has been supported by the suppo

When alkilies are used in such amounts is its commonly employed in the treatment of popti utier by the Sppty methol characteristic changes in the blood chemistry are almost always produced even though the symptoms of alkalosis mix not occur. When calcium carbonate and mygnesium outle are employed without sodium in the text ment the alkaloma is decidedly be severe and the climater of the complexity of the

to normal
In the authors study there was no definite evidence that the alkalæmic in the degree oh erved was

productive of renal damage
In conclusion the authors emphasize the importance of administering water and sodium chloride to
patients sulfering from alkalosis expectally, as a
pre operative and prospectively and a
pre operative and prospectively alkalos as a print
of the real renal for ulcer connect to surgical treat
ment the alkalosis should be amutted for at least
several days before the operation.

MANUEL L. LILRIENSTEIN M.D.

Pólyn J Surgery of Gastric Duodensi and Je Junai Ulcer (Die Chirurgie des Magen Duodensi und Jejunumgeschwueres) Therapia 1928 v 1

There is no difference of opinion between intern 1514 and surgeons as to the necessity of operatin in cases of perforation into the free at lominal cavity or cases of so calle I to large steno is which a walls a duo lenal stenosis. Operation is generally believed to be in licated all o in cases of absce ses listule re sulting from the perforation of a per tie ulcer h ur glass stomach and the less well known are stomach tahrinkage of the lesser curvature resulting in ap proximation of the pylorus to the cardia without shortening of the greater curvature) conditions which offer as much obstruction to the passage of the food as taxlaric or duodenal stenosis. On the other han I the advisability of surgical intervention in neute ulcer hymorrhige; debitable. The difficulties in the diagnosis as well as those are ing during the course of operation must be taken into consilera tion. The discovery of the bleeding point and arrest of the hemorrhage after the point is foun ! may often be mo t difficult or at least require a procedure which the exsanguinate! exhausted patient can scarcely be expected to withstand. On the other hand mo t ulcer hemorrhages cease pontaneously if the ero led vessel is not a large one and if it is a large one surgical assistance is usually too late during an acute hamorrhage from ulcer and during the acute anomia which results from it operation should be avoided if possible. The question to be decided most frequently however is whether an ulter which produces none of the complications mentioned but only pain or constant small or profu e recurrent hamorrhages should be operated upon

Unfortunately the 11th spenesss of ulere di 1282 not vet well understool and treatment even sargeed treatment is essentially empirical although the art tooly much better informed as to then seem to be the seem of the seem to be the seem of the seem to be the seem of the seem of the version of the peptite ulere have a more or less prodound influence on the motor and secretory in mind not only in the choice of the meadate but has in the determination of the operability of a seem of the seem of t

given case the second of the operations of the operations of Clinical experience as well as experimental evidence indicates that resection even extensive resection is the operation of choice for peptic uler. In mild cases this procedure is no harder on the patient than gasto enterostion, and in more patient clinical experimental experimental

ines and dangers caused by the ulcer However the

cases must be carefully selected for the operation as the procedure is too formulable to be permissible when there are only mild disturbances or doubtful findings.

For cillous ulcers especially of the stomach and for all types of ulcer of the jejunum operation is definitely indicated on account of the danger of cancer Conservative treatment is warranted most frequently in cases of duodenal ulcer. If the pa tient with a duodenal ulcer reacts well to diet and medical treatment and thereafter remains well and able to work operation is not advisable. On the other hand when the condition responds to internal treatment only slightly or not at all when the dis turbance recurs quickly when the diet must be such as lessens the patient's capacity for work and when there is continuous or recurring hamorrhage with the danger of developing morphinism and a roentgenologically demonstrable severe lesson such as perforation or stenosis surgical treatment is imperative

Coffey R C Chronic Peptic Ulcer Record of a
Personal Experience J to M 1ss 1028 xc1 t

The author reviews his results in a series of 417 cases of ulect operated upon in a period of twents four years. The mortality of 375 gastro enteros tomes was 2 4 per cent and that of 60 operations other than gastro enterostoms 114 per cent. The discrepancy is more apparent than real however as the gastro-enterostomies were performed largely of the control of the

In 1912 appalled by his early mortality the author turned to more conservative procedures. He therefore divides his series into 197 cases treated before and 1924 cases treated more 1917. The mortality in the recent group was 3 46 per cent where as the total mortality for twent four years in 472 cases was 42 per cent. In 201 recent gastro enteros tomes the mortality was 17 per cent as compared with 24 per tent in the entire scribe of gastro other than gesting the recent period 19 operations other than gesting the production of the but these fatabilities were those of patients with synthic alcoholism or uneman.

In the author's opinion the results obtained in acess of ducleral ducer be very one combined with gastro enterestomy are no better than the e obtained by state orderestomy are no better than the e ob bleeding under For early where he advocates the hopp treatment with the removal of infectious foci but he believes that in cases of long standing ulter surgers is necessar. In the latter gastro entroe tomy facilitates emptying of the stomach dilution of juries and rest of the ulter.

The author's gastro enterostomy technique is a composite of others. One of several incisions is used to anterior duodenal ulcer is covered with omentum or excited felore the ga tro enterostomy; done but

if a gastric ulcer is to be excised the gastro enteros tomy is done first so that excision may be postponed The stomach is drawn through the if necessary mesocolon to the left of the middle color artery and grasped with Allis forcers near the lowest point of the greater curvature and again caudad and toward the middle of the stomach. The jejunum is directed toward the left and grasped with Allis forceps Two linen traction sutures at the sites of the angles of the future anastomosis are secured to a Lang traction suture frame. Two posterior rows of in terrupted sutures of fine linen are placed near the mesenteric border After the incisions for the anastomosis have been made a continuous lock statch of double No a chromic catgut including all the lavers is introduced. This stitch is begun at the end of the incision nearest the operator and is con tinued almost around the front half of the anastomo sis. In the closure of the last half inch of the incision the right angle stitch is necessary. For strength in hæmostasis the continuous running catgut suture is usually returned across the front line. An anterior row of interrupted linen sutures is then introduced The mesocolon is attached to the stomach and if long enough is also sutured across the anastomosis to the jeiunum BURTON CLARK IR M D

Tanasesco Two Hundred and Twenty Six Operations for Gastric or Duodenal Ulcer (226 optrations pour ulcère gastrique ou duodenal) Bull (i mem Soc nat de chir 1028 hi 033

The statistics on a series of gastric operations for ulcer are given in detail. The total operative mor tailty was 6 to per cent.

In 105 cases of pyloric ulcer the author performed 46 simple posterior gastro enterostomies 48 gastro enterostomie with exclusion of the pylorus by ligation and 11 gastropylorectomies.

In the 46 cases of simple gristro enterostomy the morthlity was 4.34 per cent. Of 10 patients who could be followed for periods tanging from one to seven years 5.78 per cent were cured. 15.71 per cent were benefited and 6.3 per cent had received no benefit.

In the 48 cases treated by gastro enterostoms with exclusion of the pylorist the immediate mortality was 4 16 per cent. Of 10 patients who were seen again during the next seven years following the treat ment. 55 5 per cent were cut 44 8 per cent were benefited and 20 6 per cent were not benefited. In the 11 cases in which a gristropylorectomy was

done the mortality was 0 op per cenf. The technique employe I was the following Billroth II 8 cases knoenlein Mikulicz i case Iolya i case and Finsterer i case Of the 6 patients who could be followed all were cure!

In 55 cases of duodenal ulcer 21 simple gastro-enterostomies 29 gastro-enterostomies with exclusion of the pyloria and 5 gastropylorectomies were done. There were no deaths in any of these cases.

Of the 11 patients treated by simple gastro-enteros tomy who could be traced 72 per cent were cured 9 per cent were benefited and 18 per cent were not Of 16 patients treated by gastro enterostomy with

benefited

exclusion of the pylorus who returned for observa tion within a period of seven years, so per cent were cured 18 7 per cent were benefited and 31 per cent were not benefited. One of these who were not benefited developed a jejund ulcer another was treated by enervation (I atarjet s operation)

Of the 4 patients treated by gastropylorectomy who could be traced a were cured and I was benefited These patients could not be trace I after

two years Of 52 cases of ulcer of the lesser curvature 24 were treated by gastro-enterostomy 13 by resection with longitudinal suture 3 by resection with gastro enterostomy 6 by cauterization (Balfour) and 7

by gastrectomy In the 24 cases in which gastro enterostomy was done there was a mortality of 12 5 per cent. Of the 17 patients who were traced 47 per cent were cured 11 7 per cent benefited and 41 per cent unrelieved This group troves as has been claimed by Hart mann that gastro enterpytomy is of value in cases of ulcer of the body of the stomach even when the pylorus is patent

In the 13 cases of saddle resection of the lesser curvature the mortality was 15 18 per cent Of the 11 patients followed up 2 were cured 4 were benefited and s were not benefited. The period of observation ranged from eighteen months to five years. One patient with a poor result was cured by gastro-enterostomy From these cases it appears that resection alone is a poor operation and should

be combined with gastro enterestomy In the 3 cases which were treated by resection with gastro-enterostomy there were 2 cures and 1

death Of the 6 patients treated by the cautery method of Ballour I died Of the others I was cured 2 were benefited and a were not benefited. In these cases the period of observation ranged up to six years

In the 7 cases treated by gastrectomy there were 2 deaths and 5 complete cures

The more radical operations evidently give the best late results but their mortality is high I wo rerunal ulcers which occurred six and seven years after gastro enterostom; were cured by gastro

pylorectomy and a 1 anastomosis Six cases of multiple ulcer were treated variously In a cases a gastro-enterostomy was done and the patients were found to be cured when seen two three and four years respectively after the operation In each case there was a pyloric ulcer combined with r or more ulcers of the lesser curvature. One patient was treated by cauterization and another by

local resection and gastro-enterostomy but neither could be traced subsequently In 1 case a segmen tary resection (Kroenlein Mikulicz) gave a good result after three months Of 3 patients with isolated ulcers of the lesser cur vature who were treated by gastro enterostomy I

was cured and I was benefited for four and 12 years respectively and a could not be traced In hour glass stomach was cured (one year) by

gastrogastrostr my ALBERT I DE CROST M D

Lake N (The Inter Results of Partial Cas trectomy La cel 1918 ccxs 268

The surgical procedures possible in the treatment of non malignant ulceration of the stomach a e (1) posterior eastro-enterostoms (2) anterior eastm. enterostomy (1) gastro enterostomy with pylone exclusion or entero-anastomosis (4) hinney s opera tion (s) local excision by knife or cautery (6) local excision and gastro enterostomy () leeve reser tion (8) partial gastrectomy (Billroth I and II I oly a and its modifications) (o) jeiunostomy and (10) denervation Of these the author compares only gastro enterostomy and partial gastrectomy the indications for the others falling outside the

scope of the article The cases reviewed were treated in the period from 1022 to 1027 The total number of gastric operations was 221 Sixty five of the operations were partial gastrectomies and 71 were gastro-enterostomies However the percentage of ga trectomies rose from 5 in the cases treated during 1922 to 62 in those treated during 1927 The results of gastro enteres tomy and partial gastrectomy for simple ulcer are

summarized as follows

Pett PARTIAL CASTRECTORY Sati factory ++ Sat factory -Sati fa tory Unvati factory basatı factory +

GASTRO-ENTEROSTOMY Sati factory ++ Satı factory + Sati factory 12 Unsate factory 21 Unsatisfact ry +

All of the patients subjected to gastrectomy have gained weight since the operation and look remark ably healthy

Fractional test meals were carried out shortly after the operation in practically all cases and with one exception showed complete achlorby dria. Trac tional test meals after an interval of several years demonstrated quite conclusively that the achier hydria is permanent. None showed the slightest trace of free hydrochloric acid. The average total acid was less than 10 In the absence of bile the average total chlorides was 29 and when bile was

present over 70 Bacteriological examination of the teeth gums tonsils and throat in a series of cases yielded streptococci in several but in no case were the microorganisms hamolytic

In the cases in which gastrectomy was done there is no sign of primary anamia although the hamoglobin and color index are rather below normal. The total Puccey te count is normal but the poly morpho nuclears are perhaps slightly low. The author con cludes therefore that these cross present no indication of a deleterious effect of achloris dria upon the blood count.

On the whole it seems that there is no indication that gastrectomy is followed by remote deleterious effects.

In most of the cases general anasthesia was in duced by the intratracheal administration of ether or chloroform Lake calls attention to the fact that almost all pa

itents with a long history present evidence of multiple ulcers either active or headed and that in such cases we are dealing not with a lesson of local origination of the stomach which present poses to ulceration and of which the ulcer itself is but a manife tation. The occurrence of joynal ulceration after gastro enterostomy for ulcer and the assence of such ulceration after the same operation for carrinoma favor the view that the contents of the stomach are responsible.

Partial gastrectomy is the only operation which removes the cause of the ulceration in the majority of cases and can be trusted to result in permanent cure. However, the author does not perform it in all cases of gastric and duodenal ulceration cases he treats medically in the hope that some change may thus be effected in the secretory activi ties of the stomach. He believes that in cases of simple duodenal ulceration with a short history par tial gastrectomy is unnecessarily severe when a safe gastro enterostomy so frequently relieves the symp toms. In such cases the acid content is not always buch and may therefore be sufficiently reduced by partial neutralization. However if the pre operative test meal reveals a high acid content it is probably wise even in these cases to perform a partial gas trectomy in order to prevent further ulceration

CARL R STEINER M D

Rankin F W An Aseptic Method of Intestinal Anastomosis St g Gynec & Obst 1928 xlvn 78

According to findings made by Halsted Mall Hertzler and others with regard to the healing of intestinal wounds regenerative changes demonstrate that if there is no infection the healing of the peri toneal wound takes place by direct transformation of lymph into connective tissue without the granu lation tissue stage Another observation that has proved of aid in intestinal anistomosis is the occur rence of agglutination of the resected ends of the intestines when firm pressure is applied. Mall's ex periments showed that under pressure the dra phragm formed by the turning in of the margins becomes destroyed by necrosis and at the end of the fifth day the slough separates usually leaving a clean surface At the end of about three weeks the mus cularis mucosæ is completely regenerated and the raw surfaces of the anastomosi are covered over The sloughing away of this diaphragm sometimes

has been accompanied by secondary hemorrhage

which occasionally has been fatal but this is exceptionally rare. Quick healing of intestinal wounds occurs when the pertional surfaces are approximated and the sutures are placed only deep enough to catch the submiscosa the most important structure in the anastomosis.

The author has devised a clamp which may be a valiable addition to the surgeon a amamentarium Among its advantages are simplicity of arrangement and case of application and manipulation. Rankin has found it of great aid in joining the large bowel end to end or side to side and the large and small bowel end to end and has used it successfully in twelve resections of the color in which constantly in the contraction of the color in which company hemorrhage or the formation of a diaphragm in the limen has not occurred in any of the cases.

The instrument is a three bladed clamp suffi ciently short for adaptability and readily mobile. The central blade is the fixed point against which the two lateral blades operate independently. The fulcrum which permits steady pressure is in the handle there is a fulcrum on each side of the clamp. The length of the entire clamp from tip to tip is 22 5 cm. Each blade is 5 cm long and the central blade is 0 5 cm The blade portion when closed is 8 mm deep When the clamp is in use the posterior peri toneal coats of the two arms of the bowel are in di rect approximation separated only o 5 cm by the central blade and the antenor surfaces of the two limbs of the bowel to be anastomosed are separated by the entire thickness of the clamp. After the application of the suture which covers the point of the clamp but a not drawn tight over the handle portion until the latter is withdrawn, the limbs of the resected ends are kept in accurate appos ition by firm pressure and agglutination withdrawal of the clamp the end suture is put in and the whole line of sutures on the anterior surface is drawn taut without causing contamination. The diaphragm must be broken out with the fingers through the lumen

Control of harmorrhage is dependent upon crushing of the vessels Secondary hemorrhage has not occurred in the cases in which the author has used the clamp and he believes it is a much overestimated danger in closed anistomosis. The formation of a diaphragm after the operation has not been observed in the experimental phoratory nor in a series of resections in clinical cases.

In practically all cases in which an operation, a performed on the left segment of the colon for a lesion that has produced long standing obstruction at two stage resection should be done. In the right segment of the colon it may sometimes be advalue to perform the one stage operation. However, cuoma in either arm of the colon presents a some what different problem from tuberculosis stass and other lesions requiring surgical intervention and the author has come to the conclusion that all execution mats of the colon which cause obstruction should be operated upon in two stages.

A successful result following resection and anas tomosis of the large bowel especially in malign incy probably depends more upon adequate pre operative preparation and rehal ditation measures than on technical procedures. Disregard of the fact that virulent organi ms have a normal habitat in the large bowel and increase in number and virulence when obstruction is present purhaps onerales more against the success of operation than any other factor for equently adequate pre-operative preparation consisting in measures to cleanse the bowel followed by drainage procedures an I a diet consist ing mostly of carbohydrates and fruit juices which leave little residue greatly increases the chances of sati factory recovery

Highly satisfactory departures from the usual routine are graded operations performed under spinal anaisthesia Careful selection of cases for resection and the refusal of urgeons to operate in hopelessly advanced cases will lower the operative mortality in the whole group and result in a higher percentage of cures than the tendency to urge operation in cases in which the result will be uncertain An increase in operability and the institution of more radical measures for resection may be accomplished only by

attention to minute details

Double Ulcer of the Duodenum in Crimault L a Patient Twenty Years of Age Duodenopy lorectomy Late Result (Ulcere doul le lu luo lenum chez un sujet d' vingt an. duod no pylorectomie resultat (lo inc) Bull et mem Soc nut d chir 1028 liv out

The case reported was that of a man twenty years of age who had suffered for seven years with severe intermittent gastric distress and icterus lor a month he had ha I almost continual epigastric pain which was relieved somewhat by eating but became intolerable from three to four hours after meals Ha matemesis occurred at various times an I acid eructions were frequent. A rapid loss of wight and leterioration of the general condition resulted in spite of vigorous medical treatment. Rountgenog raphy showed a high degree of retention with de formity of the duodenal bulb and palpation at the site of the duodenal bulb revealed tenderness

At operation an indurated ulcer of the duodenum the size of a quarter was foun I one finger s breadth from the pylorus Adhesions were numerous and the recional lymph nodes were enlarged. Lylorectomy with section of the duo lenum just beyond the ulcer was performed and followed by posterior gistro The patient male an uneventful enterostomy recovery

I xamination of the resected duo lenum showed two ulcers on opposite walls (the kissing ulcer of

the English) In the three years since the operation the patient has had no recurrence of his symptoms although his diet has never been restricted

In the di cussion of this case Crimault states that the youth of the patient was not exceptional as

there are numerous reports of pentic ulcers in a foles cents. In the young however the condition is not usually recognize I before the enset of complications Ulcer has I cen ob crye leven in infants The symptoms are u ually simily hematemest, and melena The type of ulcer is that which occurs with eachems As a rule the infant with peptic ulcer is between my and ten weeks of acc

Icterus accompanying duo lenal lesions is of obscure etcolory but is probably due to an ascending cholangeitis caused by the duodenal infection or to the pressure of adhesions on the common duct

I his form of actories is of importance thiefly because it renders the diagnosis difficult

In conclusion the author states that the frequency of multiple ul ers has not been appreciated until recently When sy tematically looked for multicle ulcers are found often. Delore has reported sixty eight cases I cawick and Pinochietto give the incidence of multiple ulcers as 10 per cent. According to

Mithieu it is 20 per cent ALBERT F DE GROAT M D

The Surgical Treatment of W & terrenol?

Diverticulitie Frat M I 1028 n 41 From the point of view of the surgeon the follow ing two questions are important (t) In what proportion of ca es is diverticulosis confined to the iliae

and pelvic colon? (2) Is diverticulitis restri ted as a rule to one limite I section of the bowel or does it usually involve a considerable length of the color? Of the last 100 consecutive cases of diverti ulosis seen by the author the condition had advanced to diverticulities at 1 or more points in 16. In only 3 cases were the hypertrophic changes confined to the iliac and pelvic colon exclusively. In 11 of the 16 cases of diverticulitis the di ease in the pelvic and

iliac colon was associated with diverticulosis in other parts. In Scises less than 6 in of bonel was hyper tro; hie ! In the S others either more than 6 in or more than one area was affected Diverticulities is of 5 tyr is (1) acute diverticu litis (2) chronic diverticulitis (3) a ute perforative

diverti ulitis (4) chronic perforative diverti ulitis and (5) diverticulity with stenosi

Votte diverticulitis is at first subacute. Vague ab-

dominal pain increases in severity until at the end of about forty eight hours the nationt is acutely ill with severe localized 1 un pyrevia and an increased pulse rate. On examination a large and extremely tender tumor is foun ! u ually in the left lower por tion of the abdomen

The chroni form of diverticulities is the most com mon form. The symptoms are abdominal discomfort less often pain in the lower part of the abdomen at or about the umbilicus but especially in the left that fossa general flatulence a feeling of di tention and constipation arregularity of the bowel move ments diarrhora or a sense of incomplete evacua Occasionally there is hamorrhage from the rectum Except in obese persons a sausage shaped tumor can be felt in the left iliac fo a

Acute perforation may be the initial sign of diverticulties. In the 4 cases of perforation in which the author has operated the duration of the symptoms before operation was six hours: thirty six hours four days and one week. In r. case the perforation occurred in the transverse colon in r. case in the descending colon and in 2 cases in the pelvic colon. The sequelze of perforation are similar to those follow in perforation of the appendix. The pentionities is of

a sever type and may or may not become localized. Cases of chome perforation are those in which there is no sudden flooding of the pertinenum the perforation is shut of before it is complete and the typical sequel is an abscess. The condition is been described as chrome perforation with abscess. If we place in this group the cases in which no single gross perforation is demonstrable the group will in clude all cases of so called perceditions insistra and form the largest group treated surgically. Six of the

author's cases were of this type

Discritualitis with stenosis is characterized by attacks of fatulent detention with color. Such at tacks are comparatively frequent in chronic diverticulitis. Usually, they are subacute and can be warded off by thet. A physician who was subject to them was completely relieved during a month spent in Barcelona when he ate food cooked in oil as is the eastion there. By continuing the same type of Monsarrit a series of cases there were 4 of persist ent subacute obstruction from stenosis.

With regard to surgical treatment the author states that in acute discrinctions without complications no operation should be done unless unequivocal stops of aboxes make their appearance. Resection stops of aboxes make their appearance is resection of the inflamed bowled by responsible to a surgicinal stops of the inflamed bowled by responsible to a surgicinal stops of the inflamed bowled by responsible to see the state of the inflamed bowled to be trusted to solate stell by adhesions. Exploration for a suspected abscess would probably leave a facal fixtual. One duty of the surgicinal stop deep used for general and duty of the surgicinal stop deep under the program of the program of the solate and success the surgicinal state is concepted.

Gordon Watson has said In these acute cases colostomy will often be necessary and again In the absence of a definite abscess active inflammation subsides with surprising rapidity after colostomy

Chronic diverticulitis without complications is not a surgical disease but if operation is performed for suspected neoplasm the affected coil should be lifted out of the pelvis and wrapped with omentum in order to prevent the occurrence of a perforation of the bladder if an abscess forms later

Acute perforation is not likely to be diagnosed ac Acute perforation is not likely to be diagnosed ac curately before operation. It should therefore be borne in mind when the abdomen is opened on ac count of acute perstoauts of uncertain origin. The perforated diverticulum should be excised the bowel wall invaginated and dramage established as may be necessary. The infection is apt to be of a severe type necessary.

In subacute and chronic perforation it is best to wait until the abscess is well defined and to confine surgical treatment strictly to exacuation of the abscess and drainage of its site. To obtain healing it is unnecessary to search for a sloughed or perforated diverticulum.

The treatment of stenosis which is known definite ly to be secondary to diverticulities depends upon the requirements of the particular case. In this condition there is no such clear indication for operation as in cancer in which it is known with certainty that the

stenosis will be progressive

stenosabal Murmary says. Early recognition of the chaese is of the atmost myortance but if symptoms of chronic obstruction associated with the formation of a tumor and chronic sepsis are already present. I believe that immediate surgical interference is indicated and that pullatative measures at this stage will more than probably result in a disaster from which it will be difficult if not impossible for the surgical or extracted the patient. As in so many other diseases almost of many in those case which have been submitted to operation at a too advanced stage.

The first question to answer in any given case of diverticulitis is whether operation is necessary or not. If the patient is suffering in spite of treatment from a recurring attack of subacute obstruction with griping pain distention and constitution operation.

is undoubtedly indicated

If the disease is so situated and so localized that resection is easy resection is as the operation of choice but when anastomosis would be impossible it is un justifiable to subject the pattent to an extensive operation involving risks masmuch as in colostomy we have a remedy for the disease which offers a fair prospect of cure. In stenosis of the pelvic color colostomy in the transverse colors across to be the count of the usual site of the disease, which offers a count of the usual site of the disease, the count of the usual site of the disease.

able conditions is preferable to colostomy

In 3 cases reviewed by the author-1 of which was treated by resection 1 by colostomy and 1 by diver sion-the indication for operation was clear. A bor derline case in which the necessity for operation was debatable was that of a man sixty one years of are who was not a good surgical risk and had been over ated upon two years previously for a supposed neo plasm causing constipation recurring griping pain and distention The sequel is interesting as showing that the stenosis is not necessarily progressive. To day although nothing was done the attacks are less severe and recent roentgenological examination shows the stenosis to be definitely less marked than two years ago The diverticulitis and constriction involve the distal part of the relvic colon but diver ticula are present throughout the sigmoid loop and in the lower part of the descending colon As the symptoms at present show no tendency to increase in seventy the author advises against surgical treat

ment but he is of the opinion that if operation should become necessary colostomy would be the procedure of charce

In chronic diverticulitis with stenosis resection will be employed more and more frequently and ex cept in a very few cases will always be extensive Resection must go wide not only of the area of diverticulities but also of any associated diverticu-The portion of bowel chosen for the anastomosis must be free from developed diverticula. This must be proved roentgenologically as the presence of diverticula in a fat laden bowel is hable to be overlooked at laparotomy Before the indication for resection can be settled the value of colostomy in these cases of stenosis must be estimated. It is possible that if the bowel were kept empty by colostomy the inflammatory condition might subside and the stenosis resolve. In cases of stenosis which are obviously unfavorable for resection colostomy is the method to be recommended as it offers a fair pros pect of cure JOHN I MALO LY M'D

Gardham A J Choyce G G and Randall M
Directiculosis of the Appendix and Pseudo
myxoma Peritonel Brit J S rt 1028 xvi 62

GARDHAM states that diverticulosis of the appendix seems to be related to pseudomyxoma of the peritoneum which is a more rare condition. In cases of pseudomyxoma originating in the appendix di verticula have been found when the appendix has been fully investigated. Neumann found diverticula in four of eight cases of pseudomyxoma. It there fore appears that pseudomyzoma frequently follows diverticulosis Because of the repeated mild at tacks the conclusion is drawn that the diverticula are forme I as a result of the destruction of small areas of the muscular layer by interstitial abscesses during an attack of appendicitis In this rocess the mucous membrane is not destroyed. With destruction of the mucous membrane perforation takes place

Repeated attacks lead either to perforation of the diverticulum or its operative removal. In a minority of cases the inflammation subsides sufficiently to allow perforation of the diverticulum without ab s ess formation. These are the cases which develop pseudomyxoma The finding of an omental mass in many of the early cases and the fact that pseudo myzomatous nodules in the omentum are regarded as a characteristic early sign indicate that the omen tum is closely connected with the production of nseu lomyxoma peritonei. In a case reported by Gardham a portion of the mucosa was supplied by vessels from the omentum suggesting that in event of rupture of the diverticulum part of the membrane may retain its connection with the omentum. Con tinued production of mucus after removal of the appendix has been observed. The absence of an epithelial lining in the diverticulum in cases of pseudomyxoma peritonei indicates that the di verticulum does not play an active part in the later stages

CHONCE states that pseudomysoms pentone is association with perforated ovariancysts was soledly Werth in 1834, but the first case in which the cord tion was associated with a perforated cystic appeadix was reported by Fraenkel in 100 In 130 Totter recursing nine cases in the literature and one of his own found three varieties of appendix homerality (1) simple obstruction resulting free fibrosis for in one case from carnioms of the appendix (2) discriticate of micross meeting appendix (3) discriticate and in micross meeting ture and (3) multiple systic degeneration of its wall of the amendix

wall of the appendix
Some cases have been found to be associated with
both ovarian cysts and cystic appendix and in one
case there was a procoid collection in an umbifical

Removal of the source and of as much of the breudomy anomatous material as possible does not necessarily effect a ture. The jells like material either reproduces tistelf or as produced by tells with the appendix or ovary implanted in the perioduces. Fortier found chann of cubical rells but no definit identification of such cells has been mode. If there implanted cells are responsible for continued per implanted cells are responsible for continued per perioduced in the control of the control of out as several patients are alive and well after repeated operations.

Both the overy and appendix should be remoted if they do not appear normal and as much gelations material should be removed as as possible without causing too much damage to the peritoneum. Draining is contra indicated as in many of the early cases in which it was established the patient died.

RANDALL reports the case of a man seventy-one years of age who was admitted to the hospital com plaining of general weakness and great abdomiral enlargement and distress Three years previously he had an attack of abdominal pain with subsequent gradual enlargement of the abdomen Examination showed the abdomen to be uniformly enlarged the skin not shiny and the tension not great. The en largement was sufficient to cause a direct forward projection of about 3 in from the costal margin There was no resonance Throughout the abdomen a sluggish fluid thrill was noted Explorator, punc ture below the umbilious withdrew only a small amount of thick gelatinous fluid Trotter who was asked to see the case made a diagnosis of my rom atous cyst originating from the appendix

At operation a finge eavity filled with fith is stringy mucoid material was found. Twenty quarts of this material were removed. The days after the operation the patient died. Autopsy recaled depresence of a huge thick walled cyst which extended to every recess of the abdomes and was adherent to the surrounding structures. Pathological examination which passed through the vist to the the appendix production of the productio

be the secretions of the appendix during the years since the first symptoms E S PLATT M D

Eliason E L and Ferguson L k Mortality Factors in Acute Appendicitis Ann Surg 1928 [xxxviii 65]

Between 1886 and 1915 many articles on acute appendicitis appeared in the literature but since 1015 there have been relatively few and the mor tality of the condition has increased One cause of the increase in the mortality may be the fact that appendectomy is no longer considered a major procedure and is undertaken by inexperienced operators Another probable cause is the fact that in the past many of the end results of neglected appendicitis were charged not to the appendicitis but to permephric abscess liver abscess sentic pneumonia etc because before rors it was not known that these conditions might be of appendiceal origin Statistics show that the deaths occur in cases of delayed diagnosis when the disease is no longer confined to the appendix The authors review a series of 675 cases in which

the disgnosis was proved by laboratory tests and gross specimens. Operation was performed as soon as the disgnosis was made provided rigidity over shadowed distention and the vascular system was still competent. A low blood pressure associated with a high temperature and coldness of the extrem tires was recarded as a contra indication to surgery

The typical case shows that the symptoms have a definite sequence Pain of a colicky or cramp like nature with more or less general distribution begins rather suddenly and continues and increases in intermittent waves. In the beginning there is no rigidity or tenderness. The pain reaches its maximum usually in the first four hours and is referred to the epigastrium or the region of the umbilicus Nausea and vomiting follow the primary pain within an hour or two and continue for a short time only I rom four to eight hours after the onset of the disease the pain is more or less constant with exacerbations and becomes localized at McBurney's point tender ness and muscular rigidity are found in this region and the vomiting has ceased From two to six hours after the beginning of the pain the temperature rises usually to from 100 to 101 degrees F the pulse rate is somewhat increased there is an increase in the polymorphonuclear leucocytes and there is a tendency toward constipation and restlessness

In the cases reviewed draininge was necessary most often in the treatment of the youngest and the oldest patients. In the cases of those under five years of age it was necessary in 94: per cent and in the cases of those over fifth five years of age it was necessary in 100 per cent and the mortahty was in creased to 27.8 per cent.

Delayed or erroneous diagnoses are often due to the fact that too much importance is attributed to pain tenderness and rigidity at McBurney's point Livingston found typical pain and rigidity in only 75 per cent of his cases and local rigidity in only 59

per cent Gladstone and Wakely found the appendix in the pelvis in 27 5 per cent of 3 oco cases and be hand the cacum in 69 2 per cent Inflammation of a pelvic appendix usually causes epigastric pain and rectal tenderness with tenderness over and rigidity of the extreme lower end of the right rectus abdomi mis muscle Pressure over this area frequently causes pain in the epigastrium Appendiceal or secondary nain and tenderness are present at the site occupied by the appendix Inflammation of a retrocacal appendix therefore causes loin pain and tenderness and inflammation of a pelvic appendix causes rectal pain and low rectus rigidity and tenderness Vomit ing is not a dependable sign. It is especially un reliable in children and older persons. In the aged none of the objective signs indicates the gravity of the condition. The high temperatures occur in the retroperatoneal cases and those in which the con dition develops during or immediately after a pharyngeal or respiratory infection. A leucocytosis of 8 000 or more is absent in 20 per cent of the cases Cases with a low leucocytosis and a high temperature always progress unfavorably

A cathartic given at the onset of the disease will probably do little harm if the diagnosis is made early, and appendectomy is performed within from twelve to fourteen hours. Cathartics administered early or late with delay of operation are probably responsible for some of the complications and death. In certain types of cases perforation occurs very rapidly. In actual speediculate output of the appendix condition progresses rapidly and per the complication of the proposition of the property of the proposition of the property of the pro

When the diagnosis of acute appendicitis is made operation should be performed at the earliest possible moment unless the patient has a low blood pressure a high temperature with coldness of the extremittes and distention predominating over rigidity associated with diminished pain and a silent abdomen. The most frequent complications of appendicitis are persionatis and intestinal obstruction.

MERLE R HOON M D

Hurst A F Turner T W and Venables J F
The Early Diagnosis of Cancer of the Colon
and Rectum Lancet 1928 ccniv 12 5

The early diagnosis of carcinoma of the colon de pends primarily upon the ability of the practitioner to obtain an accurate history and to recognize auspicious symptoms. By the time the first symptoms appear the growth is apt to have reached a size sufficient for diagnosis by the X-ray and sig modiscope

The average duration of symptoms in twenty five cases observed by the authors was ten months The earliest symptoms are abdominal discom

fort or pain and a change in the habitual action of the bowels. These two symptoms were present in all of the reported cases. The discomfort or pain is localized in the segment of bowle proximal to the obstruction. It is a small intestine pain. In cancer of the account it is felt in the neighborhood of the mubilities in cancer of the account is self-in the neighborhood of the patie. Beaute on the applies deed of the abbit men and in cancer of the splenc flexive descending colon or he patie. Beaute of the splenc flexive descending and that cancel the provincial part of the pelvic colon in the felt mutilities of the pelvic colon in the felt mutilities and that caused by a growth in the distall part of the pelvic colon or pelvirectal flexive is localized in the middle line between the umbilities and the pubes.

The print due to cancer of the colon is often colon by and its cessition may coincile with the guirle which crit be heard and felt. The latter is a most significant sign which may enable the patient to localize the site of obstruction with great accuracy. Some patients with criteriot the colon complian of

Some patients win concer of the colon companio of dustribur others of constipution and still others of both conditions. In contrast to carcinoma of the stomach cancer of the large bowel rarely causes general symptoms in its early stages. There is at instan on anima and no loss of weight. The patient may feel quite fit his appetite remaining good and his senercy undimna held.

A barum enema often wil show a growth which he of rupe meal fails to reveal. A slight obstruction may lead to only temporary delay in the passage of the enema fluid due to spasm. Sometimes a small tumor may, be palpated if the fingers are thus direct do the exact point of localization. Farily cases of carcinoma of the colon may show no filling defect or on paging the passage of an opaque meal or on paging the may.

The presence of mucus in a solid stool is of no significance but the presence of blood or nus with or without mucus is always an indication for further investigation. If the stool is fluid or semi fluid til cerative colitis is probably present but if in addition fragments of solid faces are found the con dition responsible is more probably a growth of the pelvi colon or rectum. However visible blood and ous are hardly ever observed when the growth is proximal to the pelvic colon. If the stool is appar ently negative the patient should be gi en a meat and chlorophyl free diet and charcoal and after all of the charcoal has been passed the stools should be examined chemically for occult blood According to the authors experience occult blood is present in all or almost all specimens in every case of cancer of the stomach and cancer of the colon Occult blood is rarely found in uncompli ated diverti ulitis and never in constipation or diarrhora unaccompanied by organi disease Curiously a local band of adhesions involving the colon may also lead to the constant pre ence of occult blood in the stools The differ entiation may be impossible but frequently can be made on the basis of a carefully taken history

The authors deplore the fact that the sigmoido scope is not used more generally by other members of the medical profession besides the proctologists In conclusion they state that if all cases of supercet carcinoma of the colon were sent for dugues within a month of the onset of supprises within a month of the onset of supprises many patients would doubtless be advised to undergo an operation when the evidence was still inconcluse but that an occasional unnecessary explorition when the contract of the contract

Wheeler Sir W I deC Dukes C. Hodgen H & G. Hurst A F and Others Discussion on the Early Diagnosis of Carcinoma of the Rectum and Colon Tric Roy Soc Med. Lost 1918 22 22 1443

Wheller states that it is common for the surgest to see the patient with carcinoma of the rectim or colon first when symptoms of acute intestinal obstruction anamia and the passage of blood muta and pus indicate terminal and wide published wide changes and that 70 per cent of the cases entengs hospitals for the first time are inoperable.

Can er of the rection rectosignoul and dustiportions of the colon should be recognized early with the modern means at our disposal. It operations performed early a five year cure is obtained in 50 per cent of these of cancer of the colon. With mode erre technique, the operative mortality has been meglighte and the end result has a core more than the control of the colon. With the colon with the colon of the colon with the grighter and the end result has a core of the colon of the grighter of the colon of the colon of the colon of the extracted. According to Buttin 55 per cent of the growths remain localized until death

A rectal examination should be made in every case of abdominal disturbance as the early history of a colonic growth may seem to point to cholectistis or displacement of the uteris and the stimulation to peri, talsia caused by a tumor in the colou may

produce the symptoms of dyspepsia There is evidence that many carcinomata of the

tion

colon originate in papillomata which may be revealed by the sigmon loscope. If a growth is found in one portion of the colonic tube others may be present higher up and this possibility should be borne in mind by the surgeon at the time of opera

The \tag examination though important is not millible and must not be interpreted as settli-sonce and for all the presence or absence of a colorior of the colon is a filling delect next in important of the colon is a filling delect next in important axis of the colon of the affect bowel lies with its axis in the direction of the \text{\text{Tay of the delect with not be seen in the barrous shadow.}

All rectal evaminations should be made himan unily Ninety per cent of the growths in the rectum rectosignoid or lower sigmoid can be palpated by this method. The disappearance after an enema of a mass felt in one of these regions should excite rather than di pel suspicion as such a mass may be

formed by the collection of faces above a stricture Suspicion should be aroused also when the symptoms of appendictis are noted on the left side. Surgicial exploration should be undertaken only when suggestive symptoms persist and all other means of diagnosis have been erhausted. Fischer gives the

following advice

1. When the 'X ray picture is negative the test
for occult blood is repeatedly positive no tumor is
palpable and the history is suspicious wait and
repeat the 'X ray examination after from four to six

When the \ ray picture is not definitely negative after repeated examinations no tumor can be palpated the test for occult blood is positive and the history is suspicious perform an exploratory

laparotomy
3 When the \ ray picture is suspicious no tumor
is palpable the test for occult blood is negative and
the history is suspicious repeat the \ ray examina
tion in four weeks and if it is then still suspicious

perform an exploratory laparotomy In the young cancer of the stomach and rectum is more frequent than cancer of the colon. A hyper plastic tuberculous infiltration probably simulates cancer of the colon more closely than any other

condition

Palpation of growths in the hepatic and splenic flexures may be facilitated by palpating with the patient in the erect position. The patient should stand supporting his hands on the bed or a table and the examiner should stand back of him

Blood mucus and pus are very valuable but fate uggs in cancer of the bowel. Most reliable is the bennding test which requires 200 red cells per cent inger colon an advanced anomia may simulate permit of the colon and advanced anomia may simulate permit of the colon and advanced anomia may simulate permit of the colon and advanced anomia may simulate permit of the colon and parable perstables is an early sign of obstruction.

Any change in the character or type of the stool should be looked upon with suspicion. The lower bowel re ents the presence of a foreign body and re acts to it by a teasing tenesmus.

Wheeler draws the following conclusions

r In the presence of a growth painful penstalsis of the colon of pylonic spasm immediately after the ingestion of food may lead to the faulty diagnosis of a lesion in the upper abdomen

2 Cancers of the lower colon and rectum are external cancers from the diagnostic point of view 3 Digital and sigmoidoscopic examinations are

made too infrequently

4 Cancers of the hepatic and splenic flexures are best palpated with the patient in the erect stooping position
5 Persons with cancer develop a certain degree

of immunity but the possibility of more than one independent growth should be considered

6 Palpable peristalsis is a reliable sign of obstruction in the colon teasing tenesmus is a constant symptom of rectal growths

Durs in discusing the pathological phase of early diagnosis emphasizes that patients with adenomatous tumors which can be seen on sigmoidoscopy should be examined with the sigmoidoscope frequently as such tumors are often scattered for several taches over the bowel above and below the malignant growth.

With regard to the microscopic examination he states that the tissue at the edge of the tumor or ulcer is most apt to reveal the malignant cells

Honoson points out that the smaller the lesson the more difficult its roentgenographic detection. This is true especially if the growth 1 in a wider portion of the color such as the execum and when the bowle is covered by the shadow of overlying loops as in the hepatic and splenic flexures. In these situations oblique views are essential

Another method for the detection of early mains and or inflammatory may assons of the bowel wall is the dual exposure. In this procedure two roent genographic exposures are made at intervals of two or three seconds on the same film the patient ceasing respiration until both exposures have been made and the bowel being distended with warm fluid so that perstatiat extion is more frequent than normal. Two perstallic waives can be seen except where the bowel wall is discussed. In the discussed area there bowel wall is discussed. In the discussed area there double shadow. This is the earliest exponsition of the processing of the discussion of the control of the processing of the discussed and can be seen in cases in which the growth is of insufficient size to produce a filling defect.

Huss states that the two earliest symptoms are addominal disconfort or pain and a change in this habitual action of the bowels. The pain is located in the bowel proximal to the obstruction. If the cancer is in the account the pain is in the small in testine whereasi if the cancer is in the accoming colon or hepatic flexure the pain is in the right half of the abdomen. Cancer in the transverse colon splenic flexure or descending op pelvic colon splenic flexure or descending op pelvic colon causes pain on the left side. The obstruction may produce a colicky pain and its disappearance may coincide with a cruffle which can be heard and felt.

LOCEMART MUNIERY states that the present day earlier diagnosis of cancer of the rectum and colon is due to the more frequent use of the sigmoidoscope and routine examination for occult blood in the

stoc

G-BRIEL calls attention to the value of routine yearly physical examinations in the discovery of unsuspected colonic and rectal cancer Norbury states that in his opinion a sigmoido-

scopic examination should be made in routine examinations even if it is only slightly indicated

nations even if it is only slightly indicated
GOULDESBROUGH reports that for fluoroscopic
examination of the sigmoid following the injection
of a barrum enema he uses a tilting table

PAUL W SWEET M D

36

LIVER GALL BLADDER PANCREAS

Pribram B O Mucoclasts and Surgery of the Billiary Tract without Drainage (Mukoklase und drainagelose Gallenchrutgie) Zeniralb! f Chir 1038 by 773

Inham believes that the great majority of sur goods favor dranage of the abdominal cavity surgery of the bilary tract. Uthough there are certain cues in which amount perionisation is possible and the abdomen my therefore be closed they nevertheless regard it as always safer to make a dranage tube. The stristics on the crusses of death following operations on the bilary tracts of that in spite of dranage the most common cause of death is perionis.

The author believes that the direct harm caused by drainage in operations on the biliary tract is generally underestimated and that many of the fatalities should be attributed not to the disease but to the use of draining and tamponade. The fear of complete closure of the wound insofar as it is based upon opening of the stump of the cystic duct which has been carefully co ered with folds of the serosa of the hepaticoduodenal ligament secondary hamorrhage and the escape of biliary fluid from the liver bed is not justified. There is danger of the escape of bile only when the liver bed has been in jured Accordingly when closure of the abdomen is to be done murry of the liver bed must be ab solutely avoided This is possible with certainty only by careful subserous enucleation of the gall bla ider and then only in some of the uncomplicated cases without severe changes in the wall of the gall blad

To avoid injury of the liver bed under all circum stances the author has adopted the following technique

By means of a suction pump the gall bladder is completely empired of its fluid contents. It is then split in the center from the fundus to the cystic duct and the stones are removed. The exposed cystic duct is divided between two lightness. The mucosa is then completely charrel without production in the liver are destroyed in the same way. By this procedure two folids are obtained. These are in vagunated into the bed of the liver and accurately suttred together with serose-cross invagination site sures. A sufficient amount of issue still remains for cover a soutre of the common bile doet and the

hepatic duct

The author calls this procedure mucoclasis. It has given him excellent results and is to be recommended especially for complete closure of the wound in complicated cases. Even in cases in which the common bile duct is full of stones or in which concritions are lodged in the papills and the bile is cloudy and victed. Purbaro must setternal drain age and has obtained good results by draining the bile into the doudenum. If the papills is not absoluted to the papills is not absoluted to the papills in the papills is not absoluted.

lutely free he performs a duotenocholecholing as simple distation of the papills does not pensi permanently. He always operates without lutting the liver chefly because treation on the dispheric access to favor poor ventilation hypostass at the development of incusionas in the lower lobe of the right lung. Moreover he advocates sharp desection with the accessors rather than doll dissection.

In 200 operations including all types of gill bludder surgery performed on patients ranging in age from seventeen to sevently years there were to deaths from the immediate effects of the operation and in no instance did peritoritis develop. Three of the patients died several weeks after the operation.

tion was a pregnant noman forty one-years of as who successed three weeks after the operation from acute yellow attrocky of the line but with absolute tract. Another was a thirty seem very old woman that the control of the line and the control of the line who died it meets at the present of control of the control of the

In general the convoluence following muoclass was mouth and eastfactory in spite of the fact that all of the cases were severe and complicated and the patients hat a high fever at the time of the operation. Adhesions are formed even after complete closure of the wound but the author does not believe that they are responsible for the greateprecentage of the recurrences pseudorecurrence and other recurrent symptoms. The chief causes of recurrences are calculu-lifeth behind particularly intriheptic concretions that are newly formed in the congested bilary possages; cholangeris crit tricial stenores at the papilla and possibly in a small percentage of cases purely spassive conditions.

Sherwood W. A. Surgical Lesions of the Billisty Tract Ann Si 3 1928 Ixxxiii 178

This rejort: based on a study of 200 consecutive cases of surgical lesions of the bilary, tract about 55 per cent of which had been previously ob eried 20 the out patient department of the Brooklyn llosgi at The lesions were primarily mechanical and circulatory disturbances rather than of infectious erien.

The most successful results were obtained in cases showing obstruction of the flow of the In the majority this was due to stones grayle or negotiated blet. The effects of obstruction by stones vary with the size number and location of the stones Stones may be found in (1) the intrahepatic dicts (2) the extrahepatic ducts (3) the gastro intestinal react. (4) the personnel cavity or (5) the gall

Stones in the intrahepatic ducts are usually small and commonly described as grave! They cause only partial obstruction of the duct radicles and the ensuing liver damage is confined to a small area. Larger stones located in the larger ducts cause in tense engorgement of the editre liver and extensive mecrosis from back pressure. In some cases there

may be an ascending cholangeits. Stones in the extrahepatic ducts constitute the most serious result of gall stone formation. The gravity of the condution depends largely upon the completeness of the occlusion. Studden complete obstruction results in obstructive jaundice and necessitates prompt surgical intervention. There is

frequently an ascending cholangeitis

If a stone is impacted in the ampulla of Vater and if he ampulla receives both the bile and pancreatic ducts either the retrojection of bile into the pancreas or the escape of pancreastic enzymes may result inhemorrhagic necrosis of the pancreas Hamorrhagic pancreatities is a frequent complication of biliary obstruction and inflammatory disturbance.

Storts in the gastro intestinal canal were found in 4 cises of partial or complete intestinal obstruction observed in the Brooklyn Hospital in the past few years The location of the fistule was variable but the large size of the stones indicated

that they had their origin in the gall bladder. Stones in the peritoneal cavity were found in 3 of the cases reviewed. In 2 the rupture had apparently occurred spontaneously with little or no evidence of pathological changes in the gall bladder and the ensuing peritonitis was only a transitory chemical reaction to the irritation of the bile. In 1

case the gall bladder was gangrenous

Stones in the gall bladder may or may not be accompanied by symptoms or appreciable natho logical changes in that organ or other parts of the biliary tract but they are always a potential source of danger Cultures from freshly removed gall bladders containing stones are frequently negative and stained sections of walls of the gall bladder often show none of the characteristic changes associated with infection When pathological changes are easily recognized they appear to be the result of mechanical and circulatory disturbances due to the presence of a foreign body which as a rule is im pacted in the cystic duct. A secondary infection often develops as a result of the presence of stones but the author disagrees with those who maintain that gall stones do not develop in the absence of an infected medium and that they are invariably the result of bacterial invasion. He believes that the primary factor in the etiology of cholelithiasis is a disturbance of body chemistry in relation particulurly to cholesterol and calcium metabolism. This view is supported by the recent investigations of

Gradual occlusion of the cystic duct by a stone appears usually to result in mutous by drops of the gall bidder. Sudden occlusion causes marked ordema and hamorrhage into the cavity or between

the layers of the wall Repetition of this process causes fibrosis of the wall First there is interference with the venous circulation and later when the condition becomes more severe the arterial supply is impaired and partial or complete inflaraction or gangerine occurs depending upon the degree of the occlusion of thrombosis

When the gall bladder shows obvious pathological changes in the absence of stones it is assumed that the cause of the changes was the previous presence

and passage of calculi

In the author's opinion the acute gall bladder condition is not similar to acute appendicusts as the constitutional symptoms temperature blood pic ture pathogenesis and bacterology are in no way analogous. In acute conditions of the gall bladder even when perforation has occurred with the formation of an intrapentioneal abscess spreading peritonities trarely develops and the organisms found are of a different strain and type than those present in suppurative lesions of the appendix. Empyema of the gall bladder has often shown negative cultures and seners.

The author's chronic cases in which no stones were found showed fibrosis and involution strophy of the gall bladder wall which were believed to be the result of prolonged venous stasis of mechanical origin. Pathological examination in these cases failed to demonstrate the presence of infection.

Only the acute cases reviewed were treated as surgical emergencies. The others received con servative treatment this policy having been adopted at the outset for the following reasons.

Because it is safer to permit the average acute gall bladder condition to subside before operation is undertaken

2 In suspected biliary tract disease sufficient time should be allowed for diagnostic studies and the determination of the factor of safety

It is believed that by utilizing the various diagnostic procedures available it is possible in most instances to make an accurate estimation of the unlerlying pathological changes to convert a poor operative risk into a comparatively safe one and to carry out the indicated procedure at the best time for the patient

In this analysis several facts are emphasized of the cases operated upon) Of 168 X ray studies stones to mean only 24 (25 per cent) Malagnant disease was found in 8 (4 per cent) of the total number. Obstruction of the common duct with paundice was observed in 10 cases (5 per cent of the total number) of the total number. Obstruction of the common duct with paundice was observed in 10 cases (5 per cent of the total number). There was no instance of accidental number of the common duct with paundice was observed in 10 cases (5 per cent of the containing the common of the common of the common of the common of the cases as an emergency measure. The author was cases more frequent use of this simplet procedure in the cases of patients who are poor rasks. West complete and permanent relief was obtained.

by patients with cholelithiasis who sought treatment

for repeated pain and colic. These symptoms were associated manify with the impaction of a stone in the cystic duct or more rarely in the common duct. The condition was not primarily infectious in origin but was due chiefly to mechanical or circulatory disturbances with cretima harmoritage by drops or infarction. Infection when found was thought to be secondary.

The results were least satisfactor; in cases without holelithiass which presented the vague symptoms that are often ascribed to infection of the gall bladder rather than the severe pain and colic of holelithiasis. In cases with only slight fibrous or involution strophy with vague symptoms non unrolution strophy with vague symptoms non unrolution strophy with vague symptoms and the control of t

Chiray and Pavel How the (all Bladder Fills and Empties Itself (Comment la résicule fil aire se remplit et comment elle se vile) Presic pild lar 1028 xxx 1 289

The classical studies of Odds confirmed by Demid Hrummellamp demonstrated that the gull bladder fills possibly as the result of an increase of pressure in the ducts produce by closure of the found that the gull bladder continued that the gull bladder remains empty after textuon of the sphincter. Mann found that after ligation of the cystic duct Bengal red injected intraviously spreas in the gull bladder accordingly direct ceretion seems to be a factor in the filling of the pressure of the mention cystic blood that the pressure of the mention cystic brombatte of the pressure of the mention cystic brombatte of the pressure of the pr

Until recently investigations with regard to the emptying of the gall bladder dealt merely with the muculviture. I rom the first studies of Doson those of the present time the contractified of the gall bladder has been amply proved. Moreover it has been found recently that certain foods and drugs stimulate evacuation of the gall bladder. Boyden was the first to show the specific effect of white of eng and cream and attributed the colors and cream and attributed the colors have been applied to the colors of the colo

The most active controversy in recent years has centered about the relation of gall bladder function and the function of the sphincter of Oddt Classon was the first to suspect the presence of a sphincter at the ampulla. In 1897 Oddt described the sphincter at the ampulla anatomically and functionally incompending of some investigators the sphincter is not prediction of some investigators the sphincter is not previously grading distinct from the duodenma and it is the relaxation of the duodenma wall which produces the periodical generation of the form the ampulla

The authors believe that the sphincter of Oddi is a distinct entity and accept Doyon's original theory of the synergistic innervation of the gall bladder and sphincter

They state that the law of contray intervalue should be considered not from the anatomal bit from the physiological standpoint. While on traction of the gill bladder should cause opening of the sphincter the opening does not necessary lead to contraction of the gall bladder. Thus in the flow of Bille 4 but not of Bille B. Toobian Bille B it is necessary to inject a specific substance which will cause contraction of the gall bladder. Another was apple in Sound in the chologogues acting on the liver cell. The flow of bille is increased into the duodenum but no effect is produced on the gall bladder and the contraction of the gall bladder.

Sulphate of magnesium without question reasts the sphinter but ist effect on the gall blader is often negligible a fact suggesting that the Lyon test is not a rational procedure. This is suggesting that the Lyon test is not a rational procedure. This is suggested also by pharmacody name studies which show that while the sphinter of Odds controls the flow of the ration of the ratio of the rati

LEBERT F DE GROST MD

Scott W J M and Whitaker L. R Expulsion of Its Contents as a Function of the Gall Blad der A Cilnical Application J Am M As 1028 NC 9

The fact that partral emptying of the gall blodder occurs after the ingestion of fat is well known Hypothesis explaining this fact fall into two groups according to whether it is assumed that the gall bit ider phys a tissue or an active role. The close mechanical factors suggested are (1) various intra abdominal pressure (2) intestinal pentition intra abdominal pressure (2) intestinal pentition (3) an elastic recoil following relaxation of the one mon duct sphincter and (4) washing out of the gall blodder by hentite bile.

The assumption that variations in intra abdom anal pressure and antestanal peristalsis play a part is di proved by the fact that the gall bladder remains full after fasting after the violent struggling of experimental animals subjected to tube feeding and also after vigorous peristalsis from physostigmine or a barrum or starch meal when it contains indized oil The theory of an obligatory reciprocal mechanism is refuted by the fact that the gall bladder emplits after a fat meal with a rubber tube occluding the common duct sphincter or with a cannula in the cut end of the cystic or common duct. With regard to the fourth factor suggested the authors state that concentration of bile in the gall bladder after the ingestion of fat must occur during the emptying phase and is difficult to reconcile with emptying by washing out with hepatic bile which must produce dilution instead Graham has reported that emptying does not

occur after occlusion of the hepatic ducts but the authors experience is to the contrary. In two casts the authors ligated all the hepatic ducts as proved later by necropsy and filled the gall bladder with odized oil. In both partial emptying followed the

ingestion of fat and in one as shown by \ ray examination and necropsy, go per cent of the con tents was evacuated

The authors conclude that emptying of the gall bladder in response to fat is an active function of the gall bladder musculature independent of mechanical factors As a corollary they remind us that this is a smooth muscle response and that therefore general conditions influencing smooth muscle tonus must be considered in the interpretation of the motor phase of any cholecystographic senes

BURTON CLARK IR M D

Blond k A New Working Hypothesis for Clarifi cation of the Gall Bladder Problem (Eine neue Arbeitshypothese zur Klaerung der Gallenprobleme) Arch I kim Chir 1928 cthe 662

According to Blond the theory that the gall blad der empties itself by active movement is refuted by the anatomical structure of the valve of Heister by probing irrigation suction pressure and dve experiments and by the embryological development and vascular supply of the organ and is seemingly supported only by the findings of duodenal sounding and cholecy stography

Bile secretion is a function of the liver cells and shows marked qualitative and quantitative fluctu ations. The gall bladder is the reservoir for the stor. age of the constituents of the bile which are so neces sary for the bodily economy. In response to the stimulation of the food which reaches the duodenum the liver obtains the various constituents necessary for the formation of bile from the cystic yeins and the portal vein (intermediary bile circulation)

Function of the sphincter of Odds in the prevention of the flow of bile from the common duct during the intervals between digestion is unnecessary since when at rest the duodenum has an internal pressure greater than the secretion pressure of the liver cells

The quantity as well as the composition of the bile entering the duodenum is also dependent upon the liver cells not upon the gall bladder. The healthy mucous membrane of the gall bladder absorbs the various constituents of the normal bile and turns them back to the liver The physiological course of this absorption the flow of venous blood from the gall bladder to the liver and the reflexes which come from the duodenal mucosa are controlled by the nerves of the gall bladder

The stomach duodenum gall bladder and pancreas constitute a functional unit and must be considered a unit also from the standpoint of thera peutics The colic of duodenal ulcer 1 of the same character as gall stone colic and the latter may be associated with duodenal cramps. The site of the cramps establishes the clinical picture Cholecyst itis cholelithiasis and pancreatitis begin with a functional stenosis in the duodenum. In 80 per cent of the cases of cholecystitis and cholelithirsis pan creatitis is also present Cholecy stitis cholelithiasis contracted gall bladder and hydrops are the results of infection of the gall bladder which hinders phys

tological absorption. Insuries of the bile passages and pancreas induced by gastro enterostomy and resection of the stomach also play an important rôle since they interfere with the normal duodenal flow In Blond's opinion the operative removal of the

gall bladder is indicated only when all other methods have failed and the resorption power of the gall bladder mucosa has been practically destroyed

BODE (Z)

The Chronic Gall Bladder Canadian Deaver J B M Ass J 1928 TVIII 666

One of the important functions of the gall bladder is the excretion of concentrated bile through the common duct into the small bowel. It is interference with this function that marks the beginning of so called gall bladder dyspepsia with its immediate and remote sequelæ Bile stasis may form the nucleus of a stone and stone is the cause of a large percent are of gall bladder troubles. In most cases the cause of interference with the excretory function is infec-The infected call bladder may become the focus of infection for systemic and cardiovascu far disease. When once infected the gall bladder is always infected

It is a well established fact that next to chronic appendicitis chronic disease of the gall bladder is the most common cause of epigastric discomfort bladder dyspepsia is Moynihan's significant term for the syndrome of flatulence fullness after meals and more or less marked epigastric discomfort which may amount to pain that usually radiates around to the back and up between the shoulder blades This typical pain is not always present in the early cases The stomach soon shows selective action in its intolerance of greasy heavy and acid foods and its acceptance of a soft bland diet. One of the diffi culties in diagnosis is the proper evaluation of the early symptoms. This difficulty is overcome to some extent by cholecystography by the Graham method The question arises as to what degree of functional derangement shown by the cholecystogram warrants operative interference Moy nihan goes so far as to advocate the excision of every gall bladder if in the presence of what he calls maugural symptoms the cholecy stographic shadow is absent its opacity is diminished or its appearance is delayed. The noncalculous gall bladder presents difficulties that are

not always solved by the cholecy stogram The indications for operation are a history of at tacks at first occurring at long intervals but later becoming more frequent and more severe and the presence of tenderness at the site of the lesion. If at operation the gall bladder is found to be the cause of trouble cholecystectomy is the procedure of choice

In Deaver s opinion cholecy stectomy is preferable to cholecystostomy whenever it is possible. A na tient treated by cholecy stostomy remains subject to the same risk of cholecustic disease with the forma tion of stones and excursions of the latter into the deeper ducts invasion of the liver pancreas etc as before the drainage operation

Recurrence of symptoms after gall bladder operations may be due to the patient a failure to follow a correct postoperative dietative régime to neuranthema calculous dialhassi or cettensys and late pathological lessons found at the original operation. The conditions discovered at er-operation after cholecystectoms include adhesions persistent chronic infection ordering the parameters stone in one of the label ducts in ordering the parameters and the parameter stone in a state of the parameter of the common duct especially and a tis juncture with the discolutions structure of the common luct carcinoms of the head of the parameters and bilany fatuly.

ARTHUR I SHREEFILER M D

Bérard I and Mallet Cuy P. The Physiology and Technique of Cholecystograstrostomy (I hysiologie et rechnique de la cholécysto gastrostomie) J de chir 1028 xxxx 121

Cholecystep-streetoms has always met with opposition the argument being that it is unphysically all policy was the first to anastomo e the gall bladder and stornech routinely in cases of seem lable obstruction of the common duct. His rub theations and those of Patel Duchamp and Ierrin demonstrated twenty five years ago the prosculity of the procedure and the excellence of its possibility of the procedure and the excellence of its possibility of the procedure and the excellence of the procedure and the excellence of the procedure and the excellence of the procedure and the control procedure of the procedure and the operation from being completely abandoned.

Experimental and clinical results demonstrate definitely that cholecystogastrostomy is the most rational of biliary anastomoses. The American Congress of Surgery of 1921 and the French Congress

of triag were unantmous on this question.
The chief problems to be solved with regard to the operation are:
(1) the permeability of the anastomosis (2) the chiracter of the stomach contents (3) the biliary experion and (4) the chiracter of the

contents of the gull bladder
Judd has stated that unless the common duct is
completely obstructed the opening between the gall
bladder and the stomach will not be utilized but the

authors have seen bile flow simultaneously by the duct and the anastomosis

The nermeability of the anastomosis can be es

tablished by repetted tests through the Rehliuss tube. The ordinary redux of bile from the duodenum is easily distinguished.

Roentgen ray examination gives the following signs

- I A diverticulum at the site of the anastomosis.

 Care must be taken not to co fue this with the duodenal bulb superimposed on the storiach.
- 2 An air bubble in the gall bladder. This must be distinguished from air in the duode um or colon. Its appearance may coincide with the reflux of the opaque meal into the gall bladder.
- As \ ray examination gives no information concerning the state of the cystic duct which may be obliterated both aspiration and roentgenography must be employed

The chitacter of the gastric contents may be determined with the Rehfuss lube. Studies with the Rehfuss tube and the V ray show that from the physiological standpoint there is nothing agust colocivity castrostomy. The form of the stomach it little modified in some cases the fasting stomach contains fluid.

The stomach contents remain acid regardless of the quartity of bile present. There are great variations in the acidity but in no case is the quantity of bile sufficient to neutralize the gastine just in one case a marked hyperacidity was observed.

In one case a marked hyperacidity was observed frequently a continent fistula is obtained the flow of bile occurring only under stimulation by fool or the usual duodens! excitants. By this a lapitation

the gall bla lder conserves all its normal functions. When the obstruction of the common duct is in complete as in chroace pancreatius simultaneous tutage of the duodenum and stomach shows the degree of obstruction and the progres of the leason. This method has demonstrated that the fistula and the common duct may both function at the same time.

Occasionally refus of the gastric content usion the gail binder is observed. To present this a technique has been decloped which in no way conjuctes the operation. The antrum of the stomath in incisel transversely the powerful circular flowing the property of the proper

In conclusion the authors state that whatever the technique used cholecystogratostomy remains a operation of diversion and not a procedure for a ternal demange. To drain effectively, the anastomosis should be giping and under such conditions the gallo bilder suffers from contact with the gatter junce. Even within technique not directed at a configuration of the co

Reduced to its true role cholecystogastrostomy is an operation of great value in the treatment of bilary obstruction and certain painful gall bladder syndromes without stone and without localized holecystitt LEFRT P. B. GROAT M. D.

Judd E S and Parker B R Billary Intestinal Anastomosis for Obstructive Jaundice Analy els of 137 Consecutive Cases Arch S rg 1928

This article is an analysis of 137 consecutive cases in which anastomosis of the biliary and gastro intestinal tracts was carried out at the Mayo Chair was becaused from the Mayo Chair

intestinal tracts was carried out at the Mayo Clinic in the period from 1919 to 1924 Inclu we Contrary to the usual teaching that painless jaundice signifies a malignant condition it was found that 91 75 of the patients with carronna of

the pancreas and 66 66 per cent of those with carcinoma of the ducts had pain or colics or both In the series of cases in which it was impossible at the time of operation to say definitely whether the condition was carcinoma of the pancreas or pan creatitis pain or colics occurred in only 28 56 per cent and in the cases of pancreatitis these symptoms were present in 54 54 per cent

Pain and colics seem to have a definite relation ship to the prognosis It was found that in the cases of malignancy with these symptoms the life expectancy was longer and in the cases of benign conditions the end results of surgery were better

than in others

Of the patients with benign stricture of the bile ducts requiring biliary intestinal anastomosis all but I had had previous operations on the bile tract The average period of relief was four and seven tenths months Some of the strictures were probably due to trauma at the time of the first operation but doubtless many were caused by the continuation of an obliterative cholangeitis due to inadequate dramage of bile

In cases in which there was a reasonable chance that the patient would survive the operation the end results of biliary intestinal anastomosis were satisfactory. In malignant conditions, this operation was only a palliative measure. In the benign conditions the anastomosis of the biliary and intestinal tracts was satisfactory when there was sufficient

tissue available for a technically correct operation In the 137 cases studied there were 9 instances of partial or complete contraction of the stoma of the anastomosis requiring a reconstruction operation In 7 of the 9 a henaticoduodenostomy or henatico

gastrostomy was done

Retterer E Structural and Evolutive Variations in the Pancreas During Fasting After Trans plantation and After Resection of the Excre tory Ducts (Vanations évolutive et structurales du pancreas pendant le jeune la greffe ou après la résection des canaux excréteurs) Ans danas path 1028 v 07

In spite of innumerable investigations, the element that presides over the metabolism of sugar remains obscure

It is generally believed that the glandular culs de sac of the pancreas are concerned only with the external secretion while the islets of Langerhans like the interstitial gland of the testicle produce the internal secretion. When the pancreatic ducts are ligated or the gland is transplanted the epithelium of the acim is said to degenerate while that of the islets hypertrophies

The course of events being entirely different in the testicle the author has studied the evolution of the pancreas during fasting following resection of the ducts and after transplantation for comparison

Under normal conditions the epithelium of the pancreas is not permanent. The cells divide giving rise to the so called centro acinous cells which after fulfilling their secretory function di appear lumen of the acini is maintained by liquefaction of the protoplasm of the cells and in the same manner the intracellular secretory canaliculi are formed

After fasting resection of the ducts or trans plantation the acini become transformed into solid cords and eventually the cells are changed into 6broblasts

Since the discovery of the islets by Langerhans the nature of these islets has been variously in terpreted Physiologists have regarded them as the source of the internal secretion governing the metabolism of sugar. It is generally agreed that their origin and the origin of the acini is the same but that a specialization occurs It seems also that the islets may revert to acini

In the fasting animal many of the acini lose their lumen and take on the reticulated appearance of This change is associated with a certain degree of pycnosis Moreover erythrocytes may be

found among the cells

Following resection of the pancreatic ducts the modifications of the tissue take place from the tail toward the head and from the surface toward the interior

For a long time (seven months) the acini in the center of the gland remain normal except for an in

The periphery of the gland consists of fibrous tissue in which are wide open canals limited by small flat cells arranged concentrically. In places the lumen is absent and there is only a cord of cells. The transition of these cells to the cells of the surrounding connective fissue is continuous

This finding has been interpreted by most in vestigators as the result of the degeneration of the epithelial cells with proliferation of the surrounding stroma However mitotic figures are never seen and the author believes that the epithelial cells evolve directly into fibroblasts

Whether these remnants of epithelial cells furnish the internal secretion which prevents glycosuria remains to be determined by allowing enough time for complete degeneration of the entire gland

Following resection of the ducts the center of the gland shows large masses of reticulated tissue resembling connective tissue in appearance but found on careful study to be modified epithelium. This tissue is identical in structure with the islets. In reality the masses represent acini which have been modified by the loss of their secretory function

In a graft this process occurs much more rapidly and in a few hours there is a dissolution of cytoplasm with a degree of pycnosis and the tissue takes on a

reticulated appearance The e degenerative changes produce a tissue identical with that of the islets. However the cells

continue to produce an internal secretion until they become frankly fibroblasts and connective tissue The explains why large areas of reticulated tissue (supposed islets) are found in the pancreas of diabetics and why some pathologists refuse to see in the 1 lets organs of internal secretion

The evolution of the epithelium into fibrous tissue with eventual loss of both external and internal secretion has not as yet been clearly proved in the pancrers but has been demonstrated in the testicle With degeneration of the epithelium and its com plete transformation into fibrous tissue the internal secretion ceases.

ABERT F DE CROAT M D

MISCELLANEOUS

Graham I A Some Functional Tests and Their Significance New Lagland J. Med. 1928 exerc. 1

Graham emphasues the importance of studies of function in the early recognition of mild disturb ances Sevire disturbinces sufficient to be recognizable by inatomical changes are often very late effects and their pre-ence frequently indicates neglect Improvements in discusses must inevitably come from methods which will enable us to recognize control of the companion of the control of control of the control of the control of control of the control of the control of control of the control of control of the control of control control of control control of control control

Cholecystography is a functional test of the gall bladder. It is known that the gall blad ler concentrates its contained ble by the absorption of water and during digestion pours the concentrated ble through the cystic and common ducts into the duodenum. In addition it is probably concerned in some manner with cholesterol metabolism. The two functions of the gall bladder which are known with

certainty - its concentrating action and its emptying -can be studied by cholecystography

The densest phthalein die shadows are obtained in normal gill bladders since concentration is accomplished by the absorption of water Theo retically failure of visualization may and ate impairment of the excretory power of the liver block age of the cystic duct or impairment of the ability of the gall blad fer to concentrate its contents but experience indicates that if the intravenous tech nique has been carefully carried out failure of visualization is due in nearly all instances (about 90 per cent) to impairment of the function of concentration by the gall bludder A gall blad fer which fails to cast a shadow may be the cause of discomfort and dispentit, symptoms even if no marked pathological changes are apparent on macroscopic examination Howe er in nearly every instance of non vi ualiza tion excluding cases of impaired liver secretion such as those of cirrhosis hepatitis and hepatic ordema definite pathological findings will be evident. In practi ally all of fifts two cases collected by the author in which a gall bladder not visualized or visualized only funtly was removed in the absence of macroscopic evilence of di ease the symptoms were relieved after one year or more Cholecys tography is more valuable in diagnosi because it is a functional test than it would be if it merely re vealed anatomical changes

An important test of the excretory function of the inter is the phonoliters loodpothalein test. Vormily about 1x per cent of the die is present in the blood serum half an hour after its injection and about serum half an hour after its injection and about serum half and hour after its injection and about one hour. In cholecy stins, the average retinions a about twice normal in the one half hour period. This favors the view that cholecystins is accompand by constant hepytitis. Persons with obstine tive jumdice from malignant disease show much less retention than those with jumdic of the to the set entition than those with jumdic of the to the set entition than those with jumdic of the to the set of the set

catarrhal icterus

The retention of dye in the blood serum is an index to the operative risk. The greater the relention

the greater the risk

Phenoltetra sodophthalein may be used for simultaneous cholecystography and determination

of the exerctory function of the liver. The function of the paneres as determined from the amulisae content of the blood, since in you create discrete the amount of this ferment in the paneles of the paneles of the following the paneles of the pa

A new test meal is based on the normal regurtation of alkthine panceratic (duodenia) just the the storact. In this functional test 200 c m of 5 5 per cent solution of hydrochione and (the occentration at which the acid is normally secretaare introduced into the storach and the time rate essays for neutralization is noted. Normalls new trainaction is accomplished in twenty musters in cases of peptic where near the pyloms it is no prising to find a relative this high gastine acidity if the

lesson interreres with the duodernal reflux. The use of the cystometer which measures and records changes in volume and pressure within the urmary bladder is another important advince in studies of function By means of this instrument decised by Rose it is possible to differentiale with accuracy between disturbances of the badder of ne.

rogenic and other origins

Graham remnds us also that \(\text{ray} \) examination of the gastro-intestinal tract with the barnin med is largely a functional test. Certain disturbances is largely a functional test. Certain disturbances is more than the motor functions filing and emptying which we now know how to eviluate when they are re-cated by the \(\text{ray} \) have for the most part been responsible for the revolutionary diagnostic effect of the barnin meal.

GYNECOLOGY

TITERTIS

The Olshausen Operation for Rarrows D N Retroversion of the Uterus Am J Obst & Gunco 10 tyx 8tn1

Barrows reviews a series of 571 cases of retro version of the uterus corrected by the Olshausen operation. He compares the results of this operation after a period of seven years with the corresponding results of the Webster Baldy operation in 200 cases and the Montgomery Simpson operation in 211 cases The incidence of cure was as follows Ols hausen operation 92 per cent Webster Baldy operation 83 per cent and Montgomery Simpson operation 93 per cent. As regards pregnancy there is little choice between the three methods

Strong points in favor of the Olshausen procedure are that the silk ligature rarely causes trouble intestinal obstruction following the operation is rare

and the operation is easy and rapid and causes little trauma to adjacent anatomical structures E. I. CORNELL M D

Rubin I C. The Diagnostic Use of Intra Uterine Indized Oil Injection Combined with the X Rays as Compared with Peruterine CO, In sufflation A Study Based on Sixty Six Cases of Tubal Obstruction Radiology 1928 X1 115

The patency or non patency of the fallopian tubes can be demonstrated with certainty by peruterine insufflation of carbon dioxide. As a rule the in troduction of jodized oil into the uterus to determine the site of an obstruction is not necessary as the kymographic record and the fluoroscopic findings at the time of the insufflation are usually sufficient

Of sixty six cases in which the author employed lipiodol injections as a check upon insufflation, the results were in agreement in sixty cases. The six cases in which there was a disagreement were those of patients with high grade strictures. In high grade strictures the method in which the greater degree of pressure is ventured is most apt to be fol

lowed by penetration of the stricture

Rubin decidedly prefers the insufflation of carbon dioxide to the injection of lipiodol because it is just as effective in demonstrating patency it is simpler and less dangerous it may be repeated it does not require the aid of a roentgenologist and the carbon dioxi le is rapidly absorbed and leaves no trace in the peritoneal cavity. In some cases however the carbon dioxide may be absorbed so rapidly as to escape detection or may be confined in the pelvis by adhesions so that no subdiaphragmatic gas bubble appears

Insufflation is superior to liniodol in demonstrat ing tubal pasm and impairment of function both of

which are recorded on the kymographic tracing In doubtful cases and those in which operative relief of tubal obstruction is desired lipiodol should be used Lipsodol is valuable also in demonstrating submucous myomata of the uterus The contra indications are the same for both methods

CHARLES H HEACOCK M D

Dickinson R I. Rebellious Cervicitis from Cysts High in the Canal Am J Obst & Ganec 1928

For the elimination of latent gonorrheal foci in women Dickinson recommends repeated cauter ization of cysts high up into the cervical canal and even beyond the internal os This treatment may be begun by evacuating the cysts low in the canal by gouging out and then working upward In the search for the cysts especially when they exude a glairy mucus cervical endoscopy is of great aid

The procedure is recommended especially for women in the child bearing age. In none of the author's cases has it been followed by sufficient cicatricial tissue to obstruct labor

E L CORNELL M D

Healy W P and Cutler M The Relation be tween Structure and Prognosis in Cervical Car cinoma under Radiation Treatment 1m J Obst & Gynec 1928 XV1 15

Healy and Cutler review the end results obtained in 200 cases of carcinoma of the cervix treated by radiation alone They divide cases of this condition clinically into the following three groups

Group I Early cases in which the disease is localized and confined to the cervix

Group 2 Borderline cases in which the disease is more advanced with involvement of the paracervi cal tissues and the vaginal fornices and slight fixation of the cervix but the uterus is still freely movable.

Group & Advanced cases in which the disease extends beyond the uterus into the parametrium and there is more definite fixation of the uterus

In the cases reviewed radium in massive doses was applied at the site of the primary lesion and supplementary \ ray irradiation was given The circum ference of the pelvis was divided into four quadrants One treatment was given each quadrant the tube being so placed as to be centered on the cervical lesion

The basis of histological classification adopted was the degree of anaplasia of the tumor The significant histological signs of anaplasia are cellularity varia tion in the size and shape of the nuclei nuclear hyper chromatism an infiltrative tendency an increased number and a typical quality of the mitoses loss of polarity and absence of adult differentiated characters

The conclusions drawn were as follows

The degree of malignancy of a given case of car cinoma of the cervix may be determined frirly ac curately from a study of the histological structure Such information may be of value in both the progno is and the treatment. On the basis of the degree of anaplasia epitermoid carcinomata of the cervix may be classified into three groups which correspond closely to the three degrees of malignancy

The adult type of carcinoma of the cervix is markedly resistant to radiation, the anaplastic type is highly radiosensitive and the plexiform type oc

cupies an intermediate position

In cases of carcinoma treated by radiation the most important factors in the prognosis are probably the stage at which the treatment is begun and the radio sensitivity of the tumor From 20 to 25 per cent of carcinomata of the cervix are histologically very cellular malignant and anarlastic and therefore highly susceptible to radiation. Under radiation the prognosis improves with the degree of anaplasia of the tumor this fact accounting for a high percent age of cures in a group of cases in which the results of surgery have been unfavorable. In cases of advanced carcinoma radiation may result in a cure in a large proportion of cases if the tumors are of the radiosensitive type but if the tumors are of the radioresistant type only palliation can be expected L L CORNELL M D

Pack G T The Management of Uterine Malig nancles at the Radium Institute of the Univer alty of Paris South W J 1928 XV 505

I ack describes the management of uterine malig nancy at the Radium Institute of the University of

I aris and supplements this report with personal ob servations and comments

In discussing the histological and bacteriological study preliminary to the uterovaginal application of radium he advises the ablation or curettage of can cerous vegetations of the uterine cervix because it facilitates treatment suppresses suppuration from the injected cervit frees the implantation of the cervical tumor from the orifice of the uterine canal permits closer approximation of the radium to the outlying enner tissue favors cicatrization and less on the danger of toxa mia from absorption

With regard to the technique of radium irradiation he states that there are fundamental factors influ encing the dosage such as radiosensibility and its variations factors inherent in the histological structure of the lesson and the composition of connective tissue the influence of infection acquired radiore sistance artificial radiosensibilization the factor of time and the quantities of rays absorbed

The contra indications to irradiation within the uterus and vagina are a state of radioresistance fol lowing a series of previous treatments, the presence of a local or general infectious state that cannot be suppressed cachezia caused by anzinia following re perted hemorrhages uremia from compression of the ureters concomitant grave chronic or acute af

fections such as diabetes. Bright's disease circle of of the liver cardiopathy pulmonary tuberculous and generalization of the cancer in the peritoneum of other siscera

The advantages of external radium theraps over roentgen therapy are greater specificity or electrate of action the constancy of the emission rate of ra

dium and simplicity of technique

I aternal radium therapy is of value in cases of very advanced cancer in which irradiation by the uterovaginal route would be impractical futile or dangerous in ca. es of inoperable cancer or those at the limit of operatulity in which irradiation by the uterovaginal route would be insufficient and m cases of recurrence after hysterectomy. The radium block is applied over from six to eight areas depend ing upon the nature of the case and the size of the natient

The interstitual use of radium in this region is dan gerous When radium puncture and intra utenne and vaginal irradiation are employed simultaneously secondary rays may be produced by the impinge ment of gamma rays on the platinum needles or seeds Such beta therapy mereases the danger of radium necrosis

The indications for roentgen therapy alone are the same as those for external radium therapy. It is considered best to have the surgery follow the ra dium treatment. If the cancer is operable and the patient is in good condition hysterectomy is not rendered difficult by a previous radium therapy I revious internal uterovaginal radiation asepticizes the vagina and heals the malignant picer The author is of the opinion that the employment of the two methods successively increases the chances of effecting a cure without greatly increasing the risk The interval of time between the radium treatment

and the operation should be about two months The mediciency of the \ rays in the treatment of recurrences following previous radium therapy was reported by Regaud in 1923 with regard to epi thehomata of the skin and mucous membranes in The \rays are especially mefacient after radium therapy by the uterovaginal method Roentgen therapy should be administered first and followed by radium therapy immediately or after a very short penad of rest

The author gives the usual classification of can cers of the cervix uters according to the prognosis and then summarizes the therapeutic indications as fol-

The cancers most suitable for surrical treatment are (1) adenocarcinoma of the cervix (2) cancers associated with adnexal infection (3) cancers per sisting after radium therapy and (4) cancers asso-ciated with certain vaginal malformations. In all other operable cases in good condition uterovaginal radium therapy is indicated. This is preferable to by sterectomy. Hysterectomy may be successful in some cases but only a few of the total number of pa tients coming to consultation can be operated upon safely

Hysterectomy after internal radium therapy gives good results only in cases which were apparently operable before the radium treatment Hysterec tomy followed by radium therapy is indicated only in those rare cases in which there is malformation or occlusion of the vagina and uterus

Roentgen therapy alone or external radium ther any at a distance is the method of choice in inoper able cases in which the condition of the uterus and vagina does not permit the correct use of radium It is the necessary method when recurrence follows by sterectomy

The use of the \ rays or radium at a distance in

conjunction with the uterovaginal application of radium is the correct method when the parametrium is invaded Carcinoma of the body of the uterus if operable

should be treated by complete hysterectomy When it is inoperable radium irradiation is the method of

External radiation is given preferably with the large radium box or pack. If \ ray treatment is given it should always precede radium treatment ROLAND S CRON M D

Cox D M and Benischek W L Mixed Tumors of the Cervix Uteri Sarcoma Botryoldes with a Report of Two Cases Im J Obst & Gy 100 1928 XV1 28

The two cases reported in this article were tho e of a child two years of age and a woman twenty nine

vears of age The authors state that mixed tumors of the cervix are comparatively rare. They are of mesodermal origin. The connective tissue element is usually the most prominent. The neoplasma resemble and are frequently described as sarcomata They may occur at any age but unlike vaginal mixed tumors which are most common in infancy they are found most frequently in adults. In infants they usually appear as polypoid masses. In adults, their appear ance is less constant but they may be similar to the

grape like tumors which occur in children They may arme from the vaginal surface of the cervix or protrude from the cervical canal When they re emble sarcomata the metasta e frequently have

typical botry oid characteristics Mixed tumors of the uterus are found most often in the cervix. The clinical picture varies consider ably In the inlant the tumor is usually first dis covered when it appears at the vulva although its appearance may be preceded by a bloody di charge In the adult the most common signs and symptoms are a foul blood stained di charge dispareunia or a mass in the vagina. In some cases there may be backache a feeling of weight in the vagina or a bearing down sensation. When the grape like bodies are expelled they are sometimes mistaken for hyda tidiform mole. In the cases of children the growth is usually thought to be a simple polyp and excision is advised. Mer exci ion it quickly recurs and its malignant nature is then suspected. The extreme

malignancy of these tumors is shown by the fact that there are no permanent cures on record

According to Kolisko and Hauser these tumors arise from fetal rests. Wilms believes that they are of developmental origin and due to a displaced embryonal germ cell pushed down ahead of the wolffian duct Franks states that this indifferent germ cell must be mesodermal in order to supply the

myotome derivatives The authors cases were treated by operation fol lowed by radium irradiation. In both metastases and recurrences developed and death resulted

F L CORNELL M D

EXTERNAL GENITALIA

Garlock J H The Cure of an Intractable Vesico vaginal Fistula by the Use of a Pedicled Muscle Flap a New Concept Surg Grace & Obst 1928

Garlock reports a case in which a large urethro vesicovaginal fistula was closed by means of a pedun culated muscle flap taken from the inner side of a thigh in the form of the gracilis muscle and intra vesical suction was continued for twenty four days

without evidence of vesical infection CARL H DAVIS M D

MISCELLANEOUS

Petit Durallis P Contributions on Roentgenol ogy of the Pelvis (Contributions diverses à la radio logie pelvienne) Bull Soc d'obst et de gynéc de Par 1028 XVII 400

The author discusses a number of cases diagnosed by the intra uterine injection of lipsodol including one case of clonism and hypertonia of the uterine musculature two cases of hypotonia resulting from general weakness one with prolapse and apparent elongation of the supravaginal part of the cervix and the other with retroflexion of the uterus one case in which the pelvic segments of the intestine were shown by the injection and one case of pelvic appendicitis in which the injection of lipiodol into the uterus and tubes was combined with carcal roentgenoscopy

Following his report of these cases Petit Dutaillis reviews the great advances that have been made in the lipsodol method since it was first used to deter mine the permeability of the fallopian tubes Lipiodol 1 now employed not only to investigate the condition of the genital tract but also to outline the organs surrounding the genitals Buclere has used it to demonstrate spina bifida. With roentgen ography of the ureters after the insertion of reten tion catheters and roentgenography of the bladder after the injection of an opaque fluid it may be employed to determine the exact site and relations of intraligamentous tumors

It is of value also in treatment as it has the therapeutic properties of tincture of iodine and is not irritating. The author reports a case in which it was used in the treatment of bilateral chronic salpingitis following tuberculous pentonits. He states that he intends to try it also in chronic endocervicitis Audity of Morey M.D.

Meigs J \ Radium and Its Use in Gynecology New England J Med 10 8 event 268

The author's discussion on the use of radium in gracelogy includes a brief review of the hatory of rudium and radium therapy in general. The physics of radium is britily explained with regard to the formation of radion and with regard to the alphabert and gamma rays their properties biological uses and availability for treatment. I special refersion of the properties of the properties of the scaling of the properties of the statistics of the scaling of the gross firing in the statistics of the scaling of the properties of the statistics of the continue of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the statistics of the dark properties of the statistics of the statistics of the dark properties of the statistics of the statistics of the statistics of the dark properties of the statistics of

Beta rays because they are caustic and canable of producing complete necrosis in relatively small doses (15 mc hrs steel screened may be used to treat a small epithelioma i cm square) are of value for the destruction of carcinoma of the cervis. The destruction is as certain as that produced with the knife Normal as well as nathological cells are de stroved by the beta rays At best however beta irradiation is a superficial therapeutic measure as no o per cent of the beta rays are absorbed by 13 mm of tissue. When metals are used to absorb the beta rays the gamma rays cause a more quiet destruction of the cancer cells with the death of normal cells only adjacent to the applicator Apparently gamma rays have a more selective action upon tumor cells

As the intensity of radiation from radium de creases inversely as the square of the distance the radiologists at St. Bartholomy's Hospital in I ondon divide the radium into numerous applicators and distribute them evenly throughout the involved tissue. In France gamma radiation is believed to destroy the dividing cell whereas in England it is belu ved to prevent division Therefore in England it is believed that a certain minimum amount of radiation prevents cells from beginning mitosis and that very large amounts will not improve the re sults Donaldson and Canti are of the opinion that at the end of twenty four hours mitosis ceases only to recur abnormally in four days Therefore in cases of cancer of th cervix Donaldson uses 50 mgm in many applicators about the periphery of the lesson for one hundred and forty four hours His results are as yet to be evaluated Keynes has convinced the staff of St Bartholomy's Hospital of the s perio ity of this method also in the treatment of cancer of the breast. In the opinion of several authorities the use of a small amount of radium over a long period of time may be more valuable than the use of a large amount over a short period

Deep tumors which are inaccessible to the implantation of radon are usually treated with deep X-rays but in some clinics packs of 5 gm of radium have been employed with considerable successions. The morphological changes due to ridium in characterized by early swelling of the cells hyper chromatism of nuclei local hyperarmia leucoptosis and the occasional rupture of cupilaris. Late destroyed fumor tissue is removed and the blod supply to the tumor is decreased by thekemal eventual obliteration of the arterioles. Eventual connective tissue with a scan blood supply is formed. Any remaining cancer cells are this in carteriated and often rendered innocency for vent

As it is evident that undifferentiated cells are more su ceptible to radiation than adult cells it may be advisable to give milder does to high milgnant cells and higher does to timors of los milgnanty or to excess the latter Infection to timble the control of the control of the control to timble the control of connective tissee Returrences do not respond well to radiation here it

is imperative that the initial treatment be adequate lumors of the vulva or chtons are treated by excision followed by \ ray treatment when they are operable and interstitially with radium when sur gery is contra indicated. In operable cancer of the cervit radium treatment is the method of choi t as its results are as satisfactory as those of surger) and it is associated with no mortality. In inoperable cases surgery cannot compare with radium In early cases radium in thin steel containers the beta rays being employed is place i in the cervical canal and glass implants are used interstitially. In advanced cases silver or brass screened aprlicators are used and gold implants may or may not be inserted I ven in extensive lesions improvement is noted in three months In widely fixed disease the \ray may alleviate pain

In operable cancer of the fundus hysteretomy is the method of choice. When operation is contained and the method of choice when operation is contained and the state of the method in the state of the s

In benuga uterine bleeding the cause of which cas not be located radium is at its best a cure in oper cent of the cases being not uncommon. In the cases of young women the does should not exceed 300 mc hars. In those of women new the menopause a down has a compared to the case of the case of young nomen amid does may be given. In the cases of young nomen amid does may be repeated.

Radium is of great value for Meeding fibroids but

is definitely contra indicated when the woman is under forty years of age and when the tumor is pedunculated or very large or grows rapidly. When conditions are favorable it usually causes a reduction in the size of the tumor within air months. Its results are best in the cases of women about forty years of age who have a symmetrically enlarged uterus not larger than a three months pregnancy. In such cases radium is superior to surgery. It may give good results also in cases in which surgery would ordinarily be employed and is contra indicated on account of some general condition. The dose is from 1 500 to 2 500 me his of gamma rays placed

well up in the uterine cavity
Radium may be used also at the site of a removed
cervical or uterine polyp If it is advisable to pre
serve menstrial function the dosage should be small

In endocervicitis 300 mc hrs with heavy screen ing may give good results

The author emphasizes that irradiation of the bleeding uterus should be preceded by diagnostic curettage A JAMES LARRIN M D

Morse A H and Perry I H A Diffuse Pelvic Endometrioma Constricting the Ureters Am J Obst & Gynec 1928 xv1 38 The patient whose case is reported was under

observation for a period of five years. Death fol lowed an operation for abscess of the kidney or pyelitis. At autopsy the uterus was found distorted by the tumor and the associated inflammatory changes throughout the pelvic viscera but other wise was quite normal. The lumina of the rectum and ureters were markedly constricted this account ing for the patient's complaint of constitution for two years and the severe pain associated with micturition

Hastologically the tumor consisted of connective tissue with scattered islands of dialated glands lined with low columnar epithelium. In some of the gland lumina particles of brown pigment and shad ows of red blood corpuscles were clearly seen. The neoplasm was undoubtedly a diffuse endometrioma. The gland structures were quite similar to those of cutte similar to those found in the endometrium.

quite similar to those round in the elinometrium. The presence of pigment and red blood cells in the gland lumnan indicates that these glandular ectors structures went through the phases of the menstrual cycle. Clinically it was noted that the acute attacks of pain occurred at the onset of the menstrual period of pain occurred at the onset of the menstrual period. The cells were probably not deposited from a contract of the uterior as suggested by Sampson. The bladteral renal lesions were probably due to pressure of the pelver mass which en croached upon and constructed both ureters.

L. L. CENFILL M. D.

L D CORNELL V. D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Titus P and Dodds P The Etiological Signific cance of Lowered Blood Sugar Salues in the Comiting of Pregnancy 1 : 1 Obit & Grice 1028 XVI 00

fitus and Dodds have studied a series of forte cases of hyperemesis gravidarum of moderately severe and very severe grade with special reference to the etiological significance of lowered blood sugar values in this condition. Their work was carefully checked by blood sugar determinations at the he ginning and during the course of the treatment while the patients were in the hospital An attempt was made also to follow up the patients after six months and one year

I rom the successful results of their carbohydrate therary the authors conclude that the chief factor in the toximias of pregnancy is a deficiency in carbohydrates The sudden drop in the blood sugar in eclampsia and eclamptic seizures suggests that carbohydrate deficiency may be responsible also for

these conditions

In cases of hyperemesis the blood sugar readings in licate a hypogly cumia and are lowest in the cases of nomen who are most profoundly affected by the toxa mias In fulminating cases of hyperemesis with scute vellow atrophy of the liver convulsions occur early in pregnancy which are comparable to typical erlamptic seizures later in pregnanci

The use of insulin without glucose in hyperemesis is dangerous. Careful laboratory control of the blood chemistry in these cases with special reference to the blood sugar is essential. The authors cite a case of pregnancy complicated by diabetic coma and a blood sugar reading of 230 mgm per 100 c cm of blood in which they believe death would have resulte I il sugar had been administered

I I CORNELL M D

Ivens F Latent Sepsis in Pregnancy Toxemia J Ob 1 & C v &c Br 1 1 mp 1928 xxxv 307

Since the toxic manifestations of pregnanc) are closely allied it seems logical to expect a common cause and a bacterial cause at pears to be the most probable. If organisms are circulating in the bods in these toxemias it is to be expected that they will be excreted in the urine. In thirteen cases with all uminuria and edema coliform organisms were found in the urine usually with pus and sometimes with blood In the urine of two women with per nicious comiting of pregnance mobile bacilla vere found In a case of severe jaundice the urine con trined pus cell colon bucilli and bile In this case the col in bacillus infection had probably extended to the bile ducts. In the case of a patient with

hyperemests and saundice the urine contained alla min acetone bile leucocytes and a few coldom organisms but blood cultures were negative. Or gamisms were found in the urine also in four cut of accidental hamorrhage T FLOYD BELL M.D.

Ferguson L K and Priestley J T The Relation of Gaif Bladder Disease to Pregnancy As / Obd & Grace 1028 Iv. 81

In an investigation of the relationship between gall bladder disease and pregnancy the authors found that of a series of 112 nomen with gall bladder disease or (8, 8 per cent) had borne children and 20 of the latter stated that their first attack of curred during or shortly after their first pregnancy

In cases of cholelithiasis the stones were composed largely of cholesterol only This is an interesting observation masmuch as pregnancy is frequently associated with a definite hypercholesterolemy which undoubtedly predisposes to the formation of gall stones Because of this association of pregnancy hypercholesterolæmia and gall stones the prophy lactic treatment should be directed toward Leeping the blood cholesterol at the lonest possible le d duting pregnancy The cholesterol of the blood is dependent largely upon the diet Therefore the use of cholesterol containing foods should be restricted Among such foods are fats egg jolk fried foods sweetbreads liver kidney pork butter and cheese I' I. CORNELL M.D.

LABOR AND ITS COMPLICATIONS

Miller D Unsuccessful Forceps Cases Causation Management and End Results Bell M

1928 11 183 Hendry J How Far Can Unsuccessful Forcept Cases Be Prevented by Efficient Antennal Carel Fort If J 1998 it 189 Shaw W F Unsuccessful Forceps Cases The

Need for a Higher Standard Bu M J 19 11 188 MILLER discusses the reasons for the unsuccessful

application of forceps in 558 cases-28t from Shaw's service in Manchester 125 from Herdiy's service in Glasgow and 152 from the Edinburgo I oval Maternity Hospital In 211 cases the cause of the distocia was dispro-

portion. In the majority the disproportion was due to pelvic contraction and in a small number to sbnormal size of the child In 6 cases the cause was a contraction ring of the uterus. The pelves were chiefly flat rachitic and generally contracted but in sa cases there was a deformity of the pelvic outlet In more than one-half of the 211 cases the head

was freely movable at the brim when the patient was admitted to the hospital In many the disproper

tion was so extreme that extraction was difficult even after the head was crushed In others the head was engiging satisfactorily and would have descended had assistance been withheld until the head had moulded more and the birth passage had

become more fully dilated In 161 cases the cause of the dystocia was a poste rior position of the occiput. The fact that in the majority this had not been diagnosed shows the need of careful examination before application of forceps in order to determine the exact position of

the head

In 151 cases, the pelvis the size of the baby the presentation and the position were normal but Miller believes that some of these were cases of occuput posterior in which anterior rotation had occurred after the application of forceps while the patient was being taken to the hospital In a large number delivery had been attempted before there was sufficient dilatation of the soft passages or moulding of the head Many of the patients had had a prolonged first stage and no doubt the anxious excited relatives and their importunities had caused the attending physician to act against his better judgment

A fourth group included 12 cases of face presents tion (5 of them mentum posterior) 8 of brow pres entation 8 of hydrocenhalus 2 of breech presentation 2 of shoulder presentation 2 of ovarian tumor obstructing labor, and a case of locked twins

Shock was found not an infrequent complication and in some of the cases influenced the treat

Of the women in the first group 78 were delivered spontaneously or by low forceps showing that fur ther moulding of the head had overcome the disproportion 15 were delivered by high forceps 8 by version 98 by craniotomy and 12 by exsarean sec tion I ubiotomy was not done in any case There were 20 maternal deaths and 141 fetal deaths. The causes of the maternal deaths were puerperal sepsi in 21 cases postpartum shock in 3 cases postpartum hæmorrhage in 2 cases shock and collapse associated with rupture of the uterus in 2 cases and pneumonia in I case

Of the women with an occiput posterior position of the fetal head a large number were delivered by forceps after manual rotation to anterior 15 were delivered spontaneously 98 by forceps 11 by ver sion 37 by craniotom; and 3 by exsarean section There were 116 maternal deaths and 100 fetal deaths. The death of the mother was due to sepsis in it cases supture of the uterus in 4 cases and pneumonia in i case

In the majority of the cases in the third group morphine was given or twilight sleep was induced an I the labor allowed to continue until delivery was effected spontaneously or by low forceps Forty seven of the nomen were delivere I spontaneously 75 by forceps o by version 18 by craniotomy and by exsarean ection. There were o maternal and

78 fetal leaths. The death of the mother was

due to sepsis in 5 cases rupture of the uterus in 2 cases postpartum shock in r case and pneumonia in

Miller states that many of these disasters could have been prevented by recognition of the abnor mality pelvic contraction or over size of the child before delivery They show the danger of applying the forcers on the floating head and without ac curate knowledge of the position of the head

HENDRY in discussing how far the unsuccessful application of forceps can be prevented by efficient antenatal care emphasizes that careful external and internal pelvic measurements should be made and skeletal deformities noted. Internal examina tion is essential Besides measuring the diagonal conjugate the obstetrician should palpate the nelvic brim all around Fibroids or ovarian cysts which might obstruct labor should be detected. A pendu lous abdomen in the case of a primigravida should always arouse suspicion. In primigravidæ the head should descend into the pelvis during the last month Its failure to descend is very often due to contracte l nelvis but in some cases the cause may be a faulty presentation neoplasm or placenta prævia

In doubtful cases at term the best pelyimeter of all-the fetal head-is available. Hendry recommends the modification of Muller's method so long

advocated by Munro Kerr

Hendry calls attention to the fact that there is an essential difference in the prognosis of labor in a generally contracted and in a flat rachitic pelvis In the flat rachitic pelvis there is dsually enough space in the lateral bays on each side of the prom ontory for the head to engage transversely and make its way through the brim by descent of the occupit through one of the bays In a generally contracted pelvis however the total area of the brim is small and the head can pass through only in extreme flexion. The extreme flexion makes traction with

forceps difficult as only an insecure hold is obtained The history of difficult or instrumental deliveries in previous pregnancies should but the obstetrician

on guard for a repetition

Absolute measurement by the \ ray is not of great value except in extreme cases. The position of the head at the brim before the onset of labor does not give any indication as to how the head will mould or alter its position and relationship under the influence of uterine contractions

In Hendry's borderline cases of contracted pelvis the patient is allowed a good long labor and a lower uterine segment casarean section is done if progress is not satisfactor. To decrease the risk of infection examinations are made by rectum instead of by

vagina.

Occiput posterior positions should be diagnosed without much difficulty. Some of them can be changed to anterior positions by the use of pads and binders from 60 to 80 per cent rotate spontane ously The important point is to recognize the association of this malposition with a protracted labor Dilatation of the cervix is often slow. The

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Titus P and Dodds P. The Ethological Significance of Lowered Blood Sugar Values in the Vomiting of Freguency im J O d & Grace 1973 xvi of

Tius and Dodds have studied a series of forty cases of by permens gravilarum of molerately severe and year, severe graved with special federate severe and year, severe graved with special federate to the collegeral significance of lowered blood sugar to the collegeral significance of lowered blood sugar to the collegeral significance of the collegeral significance of the federate blood of the collegeral significance of the federate blood of the collegeral significance of the federate severe of the severe of the federate significance of the severe of the federate severe of the severe o

I rom the success ful results of their carbohydrate therepy the authors conclude that the chief factor in the toxemass of pregnancy is a deficiency in carbohydrates. The sudden drop in the blood sugar in eclampsia and eclampia, secures suggests that carbohydrate deficiency may be resunosible also for

these conditions

In cases of hyperemests the blood sugar readings indicate a hypogly cumu and are lowest in the cases of women who are most profoundly affected by the toxemas. In fulminating cases of hyperemests with acute yellow atrophy of the liver convulsions occur early in pregnancy which are compitable to typical eclamitic sequires later in pregnancy.

The use of insulin without glucose in hyperemess is dangerous Lureful laboratory control of the bloo! chemistry in these case with special reference to the blood uagar is essential. The unthoristic a case of pregnancy complicated by diabetic coma and a blood sugar reading of 30 mgm per 100 ccm of blood in which they believe death would have resulted if sugar had been administered.

I I CORNEL M D

Ivens F Latent Sepsis In Pregnancy Toxemia

J Obil Gynec Br I Emp 1928 xxxv 207

Since the tonic manifestations of pregnancy are closely allied, it seems logical to expect a common cause and a bacterial cause appears to be the mot probable. If Organisms are crucilting in the bods in these terminal manifestation of the common cause and the common cause and the bods in the terminal cause with about an expectation of the common cause with blood In the urine of two woman with per nations sometime of pregnancy models bearily seen the colon baculti and the In this case the colon bacultis underton had probably extended to the bile dutte. In the case of a patient with

hyperenesis and jaundice the urine contained allo min actions ble leucocytes and a few colors organisms but blood cultures were negative 0' ganisms were found in the urine also in four cast of accudental hymothetic. T. Floor Bitt, MS

Ferguson L k and Priestley J T The Relation of Gail Bladder Disease to Pregnancy An J Obst Scynec 1028 2vt 82

In an investigation of the relationship between gail bladder disease and pregnance the authors found that of a series of 112 women with gail bladder disease 05 (84 8 per cent) had borne children and 20 of the latter stated that their first attack of curred during or shortly, after their first pregnately.

In cases of cholelthians the stones were comp. of largel. I cholesterol only. This is an interestal observation inasmuch as pregnancy is frequestly associated with a definite hypercholesterast a which undoubtedly predisposes to the formation of gall stones. Because of this association of pregnary hypercholesterolarma; and gall stones the prophilarite treatment should be directed toward keeping the blood cholesterol at the lowest possible folduring pregnancy. The cholesterol of the best of dependent largely upon the diet. Therefore the state of cholesterol containing foods should be rained of Among such foods are fast egg, often and tests are the cholesterol, the properties of the cholesterol of the properties of the cholesterol containing food should be rained of Among such foods are fast egg, often and cleas assertiments here kidney poor, B. Consist, P. L. Constant, P. L. Constant

LABOR AND ITS COMPLICATIONS

Muller D Unsuccessful Forceps Cases Causation Management and End Results Bril M J

1918 J 181 Landry J How Far Can Unsuccessful Forcess Cases Be Prevented by Efficient Antenstal Care? Br | M J 1928 U 185 Shaw W F Unsuccessful Forceps Cases The

Need for a Higher Standard Brit V J 1928

MILLER di cusses the reasons for the unsucces ful application of forceps in 558 cases—281 from Shaw a service in Manchester 125 from Hendry's service in Glasgow and 172 from the Edinburgh Royal Maternity Hospital

In 1st cases the cause of the dystocia was disproportion. In the majority the disproportion was due to pelvic contraction and in a small number to all normal size of the child. In 6 cases, the cause was a contraction ring of the uterus. The pelves were chiefly flat rachitic and generally contracted but in 2c cases there was a deformity of the pelvic outlet.

In more than one half of the zir cases the head was freely movable at the brim when the patient was admitted to the hospital. In many the dispropor tion was so extreme that extraction was difficult even after the head was crushed. In others the head was engaging satisfactorily and would have descended had assistance been withheld until the head had moulded more and the birth passage had become more fully dilated.

In 161 cases the cause of the dystocia was a poste root position of the occuput. The fact that in the majority this had not been diagnosed shows the need of careful examination before application of forces in order to determine the exact position of

the head

In 151 cases the pelvis the size of the baby the resentation and the position were normal but filler believes that some of these were cases of except posterior in which anterior rotation had occurred after the application of forceps while the abient was being taken to the hospital. In a large umber delivery had been attempted before there was sufficient distantion of the soft passages or moulding of the head. Many of the patients had had a prolonged first stage and no doubt the aurouse the stage of the surpression of the stage of the

A fourth group included 12 cases of face presenta tion (5 of them mentum posterior) 8 of brow presentation 8 of hydrocephalus 2 of breech presentation 2 of shoulder presentation 2 of ovarian tumor obstructing labor and 1 case of locked twins

Shock was found not an infrequent complication and in some of the cases influenced the treatment

Of the somen in the first group 78 sere delivered spontaneously or b low forces showing that fur ther moulding of the head had overcome the disproprion 15 sere delivered by high forces 8 by remaining 6 by cranical forces 10 series 10 se

Of the women with an occiput posterior position of the fetal head a large number were delivered by forteps after manual rotation to anterior 15 were delivered spontaneously, 95 horeeps 11 by ver party 15 horeast party of the property of t

In the majority of the cases in the third group morphise was serven or shapfut deep was induced an I the labor allowed to continue until delivery was effected spontaneously or blow forceps. Fortiseen of the women were delivered spontaneously as blow forceps to be served to the women were delivered spontaneously as blow cramotomy and 2 blo crasses on the western as the cramotomy and 2 blo crasses as section. There were o maternal and 5° tetal details. The death of the mother was

due to sepsis in 5 cases rupture of the uterus in 2 cases postpartum shock in 1 case and pneumonia in 1 case

Miller states that many of these disasters could have been prevented by recognition of the abnor mality pelvic contraction or over size of the child before delivery. They show the danger of applying the forceps on the floating head and without accurate knowledge of the position of the head.

curate knowledge of the position of the head HENDRY in discussing how far the unsuccessful application of forceps can be prevented by efficient antennatal care, emphasizes that are the formation and the second of the control of the

In doubtful cases at term the best pelvimeter of all—the fetal head—is available. Hendry recommends the modification of Muller's method so long

advocated by Munro Kerr

Hendy calls attention to the fact that there is an essential difference in the prognosis of labor in a generally contracted and in a flat rachitic pelvis In the flat rachitic pelvis there is should enough space in the lateral bays on each side of the promoutory for the head to engage transscreely and make its way through the brim by discent of the occiput through one of the bays. In a generally contractly pelvis however the total area of the brim is small and the head can pass through only in extreme flexion. The extreme flexion makes traction with

forceps difficult as only an insecure hold is obtained.
The history of difficult or instrumental deliveries in previous pregnancies should put the obstetrician

on guard for a repetition

Absolute measurement by the \times ray is not of great value except in extreme cases. The position of the head at the brim before the onset of labor does not give any indication as to how the head will mould or alter its position and relationship under the influence of uterine contractions.

In Hendry s borderline cases of contracted pelvis the patient is allowed a good long labor and a lower uterine segment createran section is done if progress is not satisfactor. To decrease the risk of infection examinations are made by rectum instead of by vagina

Occupat posteror postuous should be diagnosed without much difficulty. Some of them can be changed to anterior postuous by the use of pads and bindiers. From 60 to 80 per cent rotate spontance onsity. The important point is to recognize the association of this milposition with a protracted labor. Dilatation of the crivia is often slow. The

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Titus P and Dodds P The Ftiological Significance of Lowered Blood Sugar Values in the Voniting of Freguency Im J Ob 1 & Grace 1018 XV1 90

Thus and Dodds have studied a series of forty cases of hyperemess gravilatum of moderately severe and very severe grade with special reference to the stoll sized seguritors of lowered blood series values in this condition. Their work was credible tocked by blood sugar determinations at the like ginning at I during the course of the treatment while the patients were in the hosy ital. In attention was made also to follow up the patients after air months and one vear.

I rom the successful results of their carboh drate therapy, the authors conclude that the chief factor in the toxa mass of pregnance is a deficience, in carbohydrates. The sudden irop in the I lood sugar in eclampsis and eclamptic seasures suggests that carbohydrate deficiency may be responsible at o for these conclutions.

In cases of hyperemess the blood sugar readings in licite a hypoglycenia and are lowest in the cases of women who are most profoundly affected by the toxemias. In fulminating cases of hyperemias with acute yellow atrophy of the liver convulsions occur early in pregnancy which are comparable to type a claimble sequered like the prognancy of the prognancy which are comparable to type a claimble sequered like the prognancy of the

The use of insulin without glucose in hyperemess is dangerous Careful laborators control of the blood chemistry in thick cases with special reference to the blood suger is essential. The authors cite a case of pregnancy complicated by diabetic coma and a blood sugar reading of 150 mgm per 100 c cm of blood in which they believe death would have resulted if sugar had been administer?

I L CORNELL M D

Ivens F I atent Sepsis in Pregnancy Toxemia

J Obst & Gy t & B if L tp 928 xxxv 30

Since the force manifestations of pregnancy are closely allied it seems logical to expect a common cause and a bacterial cause appears to be the most probable. If organisms are crucilyting in the body in these toxerms it not be the most probable and the common common

hyperemesis and jaundice the urine contained she min acetone bile leucocytes and a lew colorio organisms but blood cultures were negative or ganisms were found in the urine also in fost call accidental harmorrhage.

Thosp Batt, MD

Ferguson I k. and Priestley J T. The Relation of Gall Bladder Disease to Pregnancy And J. Obs. E-Gynec. 1928, 201-82

In an investigation of the relationship between gall bladder disease and pregnancy the author found that of a series of 112 women with gall bladen disease QS (84 8 per cent) had borne children and 20 of the latter stated that their first attack or curred during or shortly after their first pregnart) In cases of cholelethiasis the stones were composed largely of cholesterol only This is an interesting observation masmuch as pregnancy is frequently associated with a definite hypercholesterolams which undoubtedly predisposes to the formston of gall stones Because of this association of pregnance hypercholesterolæmia and gall stones the prophr lactic treatment should be directed toward keeping the blood cholesterol at the lowest possible is during pregnancy The cholesterol of the blood a dependent largely upon the diet Therefore the tee of cholesterol containing loods should be restricted among such foods are fats egg volk fried foods sweetbreads liver kidney pork butter and these F L. CONNELL M.D.

LABOR AND ITS COMPLICATIONS

Miller D. Unsuccessful Porceps Cases Causation
Management and End Results Brd M. J.

Ilendry J How Far Can Unsuccessful Forces
Cases Be Prevented by Efficient Antennal
Cases R v M / 1018 H 185

Care? B it M J 1938 it 185
thaw W F Unsuccessful Forceps Cases The
Need for a Higher Standard Brit M J 1938
it 188

MILLER discusses the reasons for the unsuccessful application of forceps in 558 cases—581 from Shaws service in Manchester 125 from Hedri Service in Glasgow and 152 from the Edinburgh Royal Maternity Hospital

In 211 cases the cause of the dystocia was deport portion. In the myority the disproportion was die to pelvic contraction and in a small number to be normal size of the child. In 6 cases the cause us a contraction ring of the uterus. The pelves were chiefly flat rachitic and generally, contracted but it

In more than one-half of the 211 cases the head was freely movable at the brim when the patient was admitted to the hospital In many the dispropor

MISCELLANEOUS

Nelson E E and Pattee G L The Present Status of the Ergot Question with Particular Reference to the Preparations Used in Obstetrics and Gynecology Am J Obit & Gynec 1028 xvi 73

The authors have made a study of the composition of ergot its active principles and the preparations offered on the market. They classify the active substances into two groups the alkaloids crystalline ergotinne and amorphous ergotinne (the latter known also as ergotoxine) and the amines principles.

cipally histamine and tyramine

"Paramacologically the crystalline ergolimne is a retitutely inert substance as shown by its action on the isolated guinea pig uterus. The amorphous regolimne or ergolovine has a more marked effect as shown by the characteristic bluing and gangrene it cuses in the cock a comb it is stimulation of the excised uterus of the rat cat and guinea pig and its simulation of the uterus of the cat rabbit and stimulation of the uterus of the cat rabbit and chemically different from ergoloxine has a similar pharmacolynamic action.

Of the amnes histamne and tyramine are the only two of any importance. They occur in the fresh crude drug and are usually present in the galenical preparations. The relative activity of these preparations is diumetrically opposite. Tyramine produces a rise and histamine a fall in the blood pressure. On the excised uterus, tyramine has less than one one hundredth the activity of histamine.

The authors conclusions regarding the activity and use of ergot and us pracciples are as follows. All of these substances will stimulate the isolated uterus but the value of tyramine ergotoxine and histamine in obstetrics or gynecology is question able. The alkaloid ergotamine is probably the most

important constituent of ergot. Its presence is highly desirable in all ergot preparations and should be insured. Of the ergot preparations on the market

only the USP fluid extracts contain important amounts of the active alkaloids and only the official fluid extract or preparations definitely shown by proper methods of assay to contain these alka loids should be used CL. CONVEIL M.D.

Chappaz G Comparative Serological Studies of the Blood of the Umbilical Cord and the Retro placental Blood (Études de sérologie comparative entre le sang du cordon et le sang rétro placentaire) Gyitée et obst 1928 xvu 283

In a series of observations extending over a period of two years Chappaz of the Rheims Maternity Hos pital compared the usual serological reactions oc curring in the blood of the cord and the retroplacen tal blood at the time of delivery. He found that in the blood of the cord the Hecht reaction is usually worthless In 58 of 150 cases selected at random the results of the tests of the blood of the cord and the retroplacental blood were contradictory In 53 of these 58 cases the reaction was positive in the retroplacental blood. In order to ascertain whether the retroplacental blood has special properties which made the positive reactions without significance blood taken from the arm of the mother at the elbow was also tested. The reactions of the latter agreed with those of the retroplacental blood but were a little less marked

hittle less marked
The author takes a sample of the retroplacental blood as a matter of routine whenever possible when the reactions are negative the taking of nu merous samples in the ordinary examination for the Wassermann test is thereby avoided. If the react tions are positive a sample is taken from the elbow and two results are obtained with the unconvenience of taking only one sample of blood. When the reteroplacental blood is not obtained a sample is taken at the control of the suppliest symptom has been apparted to the property of the property

position should always be disensed before the application of forcers

Bony deformity of the pelve and obliquity of the axis of the uterus may give rise to a face or brow presentation The latter can often be treated by the use of a binder Transverse and oblique presenta tions should be identified before the onset of labor and treated as necessary A breech presentation should be diagnosed easily and hydrocephalus fairly ezerly

The application of forceps before complete duata tion of the cervix is a most dingerous procedure This should be strongly impressed upon the medical student

I mulwife should not be allowed to care for a pregnant woman unless provision has been made for a careful examination of the patient by a physician before labor is due

Sit an reviews cases in which a large number of cranistomies were performed. He states that a large number of the babies could have been saved by casarem section but the risk to the mother would have been much greater. In 3 3 4 cases collected in from cæsarean section was 16 per cent when the operation was done before the onset of labor and 26 per cent after attempts at forcers delivery. In Shaw a opinion there is probably less risk in a lower uterine segment casarean section with delivery of the placenta and cord through the cervit and vagina after closure of the uterine incision as advocated by Manro Kerr

Shaw states that poor obstetrical results are probably due to apathy and the lack of sufficient ob stetrical instruction in schools. Both the medical profession and the laity fail to realize the risks of labor and the fact that special knowledge is neces sary for the skillful treatment of abnormal cases

In the opinion of the laity labor is a normal natural function If it ends successfully it is no credit to the doctor or the nurse but if anything goes wrong the attendants must be to blame practical outcome of this belief is that very small remuneration is paid for attendance upon a maternity case. The physician is expected to be able to bandle any abnormality. If he realizes that the situation requires someone more experienced he feels that this means a loss of his prestige in the eyes of the patient and that he will be blamed for the extra expense Until the public realizes the skill time and patience required in every maternity case and is willing to nay commensurate fees so long will the temptation remain to hasten delivery by every available means

Students should see and attend a greater number of cases than they are now required to attend and should be obliged to spend more time in maternity wards

Careful antenatal observation is very important as is also anti epsis. The obstetrician must not be influenced by the patient's relatives. He must be nationt and realize that the cervix may be very slow in dilating completely The application of forceps with the head at the brim should be a rare me codure since exsarean section is preferable. The position of the head should be diagnosed definitely be fore forcers are applied PRILIP II ARNOT M D

Nathanson J N Anatomy Genesis and Cinici Considerations of Placenta Accreta in 1 Obst & Greec 1018 EVI 44

Nathanson di cusses the etiology anatomy pethology and clinical aspects of placenta accreta and reports a case in detail. He states that in a reser he made of the histories of , coop patients admitted to 3 large obstetrical hospitals to determine th frequency of the condition he found only a cases.

The microscopic anatomical examination revess a definite lack of the spongs laver of the decom basalis which accounts for the difficulty in the up ration of the placenta from its normal site of implantation. It is possible that any procedure ab a leads to atrophy of the endometrium such as previous manual removal of the placenta or curettage, may be a predisposing factor in the development of placenta accreta. It is probable that the condition may result also from improper develorment or s pathological change in the corpus luteum which is known to control the development of the decidus.

Unless previous manipulations have been made to produce partial detachment the condition is reognized by failure of separation of the placenta and absence of bleeding. The diagno is is corroborated by exploration of the uterus and failure to fir 1 a line of cleavage between the placenta and the utens The only rational treatment is hysterectomy as the offers the best chance for recovery and prevents the serious complications of hamorrhage and seres which so commonly occur when removal from below F L. CORNELL M D is attempted

PUERPERIUM AND ITS COMPLICATIONS

Sherman W ON Uterine Sterilization Sr Gynec & Obst 1928 zhu 115

In the treatment of uterine infection following de livery or abortion the author uses Dakin's solution This solution is introduced into the uterine cas to under just sufficient force to keep it from entenig the fallopian tubes From 4 to 8 oz are allowed to flow in every hour

Sherman reviews 185 cases treated by this method with 26 deaths. The duration of the treatment averages three or four days The effect of the treat ment is noted in the progressive diminution in the bacteria in the lochia

Because of the special apparatus necessary if advisable that the treatment be carried out only in well equipped hospitals and by skilled operators The best results are obtaine I in the so called I utrid puerperal septic endometritis of mixed bacterist origin with marked subinvolution of the uterus When extension to the parametrium is suspected the method is contra indicated

MAGNUS P DENES MD

brought over and across it small bits of fat being placed under the sutures to keep them from cutting through the renal tissue. This stage of the resection is completed by capsular suture and nephropex is then done.

Partial nephrotomy with dilatation of a constricted callyx or the removal of a stone from a callyx was practiced twice in each case with transrenal drainage of the pelvis and a successful result

I lastic operations on the ureteropelvic juncture were performed for constitution in two cases. In one case a longitudinal incision of the constitution was followed by transverse stuture. In the other the constricted area was resected and terminolateral anastomosis was done. Transrenal drainage and enphropezy were performed in each instance.

Temporary drainage of the pelvis by the transrenal route has been applied in the treatment of minor dilatations with infection resistant to ordinary methods of pelvic lavage. Nephroperv is performed with this procedure as in other operations. Papin has used this treatment in about fifty cases and has

found it very successful

Besides the procedures described Papin has found unierous combinations necessary depending upon the indications. These are (1) single nephropiers (2) denervation and nephropers (3) section of a vessel and nephropexy (4) pelvic dramage and nephropexy (5) resection of the pelvis dramage and nephropexy (6) resection of the pelvis dramage and nephropexy (6) resection of the pelvis dramage and nephropexy (6) and the pelvis dramage and nephropexy (6) resection of the pelvis dramage and nephropexy (7) the pelvis dramage and nephropexy (8) the pelvis anastomosis dramage and nephropexis.

Maxion in closing the report stated that he agreed with Papin that nehipropery is an important part of the treatment. He believes that in many of the cases reviewed in which the kidney was low simple suspension alone would have accomplished as good results as the more complicated procedures. He regards Papin a results from partial resection of the constituted neck of a cable as a secrebial. The rejects the neuromuscular theory of hydronephross believing that the condition is the result of obstruction by a calculus constriction tumor abnormal vessels or low position of the kidney.

MICHAEL L MASON M D

Andrén G Contribution on the Pyelographic Diagnosis of Renal Tuberculosis icta radiol 1018 rt 180

Andrén states that the characteristic feature of the prelographic picture of relatively early renal tuberculosus is the presence of signs of inditration of a calyx wall and of narrow fastious strates extending from this area. He reports two cases in which the diagnosus was made by prelography after other methods of examination had failed to indicate the nature of the condition definitely and was verified by pathologico anatomical examination after operation

Dick B M Staphylococcal Supportative Nephritis (Carbuncle of the kidney) Brit J Surg 1928 (V) 106

The author adds three cases of carbuncle of the kidner to the twenty, seven that have been reported in the literature and discusses the etiology clinical features diagnosis and treatment of the condition. He believes that carbuncle of the kidney may be diagnosed with considerable accuracy and is a distinct pathological and clinical entity.

TORN G CHLETHAM M D

Gruber C M The Peristaltic and Antiperistaltic Movement in Excised Ureters as Affected by Drugs J Urol 1028 xx 27

In experiments performed by the authors on taneous pensialise and antipensialite of the contractions were observed. In some cases they occurred as long as one hunered and cell actions of the contractions were observed and cell and the contractions of the contractions of the contraction was dependent upon the rate of contraction. Stronger contractions were always noted after longer nor judy of the contraction of the contraction

The effect of temperature the hydrogen ion concentration of the solution epinephin urea acetyl choline and nicotin were also determined John P.O. Fil. M.D.

John T O VIII VIII

Cibert J Cystic Dilatation of the Ureter Strangulated at the Urethral Mentus (Dilatation kystique de l'uretère etrangle au méta urétral) J d'urol méd et chir 1928 xxx 468

The author reports a case of ureteroccle on the left sade which prolapsed not the uterthal meatus At first the sac emerged from the urethra intermitently but eventually it became strangulated and gave rise to urnary retention and gangrene. Before the prolapse there had been no esscal's impations or attacks of lumbar pain such as are usually associated with the development of cystic dilatations of the lower end of the ureter.

As the orifice of the right ureter was almormally.

small the author believes that the ureterocele on the left side was due to a similar but more marked malformation

Hunner G L Calculus of the Upper Urinary
Tract Treated by New Methods End Results
J Urol 1928 xx 64

The author emphasizes the important causal relationship ensiring between ureteral structure and the formation of calculi in the upper urinary treet. Clinical experience indicates that ureteral stones are usually formed in the inflammatory strictured area of the ureter and are not a was formerly believed kidney stones which have become lodged in the ureter secondarily.

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Davis J. F. The Surgical Pathology of Valforma tions in the Kidness and Ureters. J. Leal. 1028

I ollowing a review of essential festures in the unitary extended in structural development of the unitary exerctory processes from the I west to the highest forms of life the author discusses the comparative anatoms of the ki lieus of animals having mature I principline and menoaphire decloy ment and the occurrence and etology, of cent malforms and the occurrence and etology, of cent and/orms and the occurrence and etology of emit malforms in minist, and man He reports a study of unitary to the control of the

Chevassi M. The Study of Hydronephroses by Ureterography (Le hydr nephroses et leur étude au moyen à lurete graplia). Bill et mêm doc nit de chir. 1928 his 900.

Chevassu criticizes Lapin's recommendation of surgery in all cases of hydronephrosis on the basis of the findings of preterography. Chevassu believes that in mill and partial cales of hydronephrosis removal of the cause of the obstruction may cure the condition and that preferography is not as yet far enough develope i to justify operation in all cases on the basis of its results. In support of his opinion he calls attention to the fact that the variation of the caliber of the ureters in different persons may give rise to errors of interpretation. Moreover the iniec. tion may not distent the uneter completely the result suggesting the presence of narrowed and dilated zones when such zones are absent and in very sensitive pitients it may overditend the ureter and mask gones that are narrow Even if a constricted zone i seen it may be normal or it may be due to a transitory contraction of the ureter or a more persistent contraction in the form of spasm Spasm of the ureter is the condition most apt to be interpreted incorrectly The persistence of a decrease in caliber at the same point indicates a true contriction but the patient often objects to repeated examinations

The greatest defect in weteropy-elography is the difficulty in deficientisting between perminent and temporary conditions. There is nothing to show that a dilatation of the pelus or writer seen at one examination is irremediable. I veloscopis has shown that in spite of count terable dilatation in the pelus in the considerable of the pelus of

In conclusion Chevassu urges that cases of hidronephrosis le studied carefully and systematically before operation is undertaken

ALDREY G. MOR. W. M.D.

Papin F: Conservative Operations for Hydro nephrosis (De quelques opérat ons concervators dans les hy fronchhroses) Bull et mêm Soc u' de ch 1028 lts 1000

I apin reports a series of cases of bydronephross which were treated by conservative operation and Marion who real I apin s paper before the Society discusses the etudory of the condition

I apin s cases were all congenital hydronephrose In the treatment the attempt was made to save as much functioning renal tissue as possible depending upon pyelography to determine the extent of the condition I apin completed every operation with a nephropery which he considers an important step in the procedure. He performs nephropery according to his own technique The superior pole of the kid ney is transfixed from 2 to 2 5 cm below the aper with two long catgut sutures tied on either side over bits of fat taken from the subcutaneous tissues These sutures are then passed at a distance of about an inch from each other through the intercostal space above the eleventh rib and tied The fatty capsule is then sutured to the twelfth nb. forming what I apin calls an infrarenal hammock

Latisla resection of the pelsis of the kiners as done in seven cases and has successful and I to one however nephrectom became necessivalistic possibly became in the pelsis and property to hold. I artisla resection of the renal pelsis as applying the distance of the pelsis as should observe some of the pelsis as though the pelsis as property of the pelsis as though the pelsis as resected and the pelsis resurred the pelvins is resected and the pelvins resurred the pelvins is resected and the pelvins resurred drawing the pelsis pelsis and the pelvins is resected and drawing results and drawing the pelsis pelsis and drawing the pelsis pelsis

I apin recomments portial resection of the kinds with was performed successfully in two cases for cases with dilatation limited to a large cally and believes it is the only treatment for such cases. The extent and character of the dilatation having been determined by peolograph. Papin moisse the kindney (suj erior pole) transversely so as to care as the dilated vilvx intro lices the index finger into the dilated vilvx intro lices the index finger into the dilated valvx into lices the index finger into the dilated valvx into lices the index finger into the dilated valvx temporarsh; compressed by a rabbit sound and performs at the control of the properties of the valve of th

brought over and across it small bits of fat being placed under the autures to keep them from cutting through the renal tissue. This stage of the resection is completed by capsular suture and nephropexy is then done

Partial nephrotomy with dilatation of a constricted calyx or the removal of a stone from a calyx was practiced twice in each case with transrenal dramage of the pelvis and a successful result

Plastic operations on the ureteropelvic juncture were performed for constriction in two cases. In one case a longitudinal incision of the constriction was followed by transverse suture. In the other the constricted area was rescreted and terminolateral anastomosis was done. Transrenal drainage and merbiponey were performed in each instance.

Temporary drainage of the pelvis by the trans renal route has been applied in the treatment of minor dilatations with infection resistant to ordinary methods of pelvic lavage. Nephropexy is performed with this procedure as in other operations. Papin has used this treatment in about fifty cases and has

found it very successful

Besides the procedures described Papin has found uniwerous combinations necessary depending upon the indications. These are (1) single nephropery (2) denervation and nephropery (3) section of a vessel and nephropery (4) pelvic dramage and nephropery (6) resection of the pelvis dramage and nephropers) (7) resection of the pelvis dramage and nephropers) (7) resection of the pelvis anastomosis dramage and nephropers)

Maxiov in closing the report stated that he agreed with Papin that nephropery is an important part of the treatment. He believes that in many of the cases reviewed in which the kidney was low simple suspension alone would have accomplished as the more complicated procedures need results as the more complicated procedures need results as the more complicated procedures the kidneys in cases of dilated calves and extension of the constituted neck of a call as a excellent. He rejects the neuromuscular theory of hydronephrous believing that the condution is the result of obstruction by a calculus constriction tumor abnormal vessels or low position of the kidney.

MICHAEL L MASON M D

Andrén G Contribution on the Pyelographic Diagnosis of Renal Tuberculosis Acts radiol 1928 ix 289

Andren states that the characteristic feature of the prelographic picture of relatively early renal luberculosis is the presence of signs of indification of a caly a will and of narrow fistilous strates estending from this area. He reports two cases in which the diagnosis was made by prelography after other methods of examination had failed to indicate the methods of examination had failed to indicate the nature of the condition definitely and was verified by pathologico anatomical examination after operation.

Dick B M Staphylococcal Suppurative Nephritis (Carbuncle of the kidney) Brit J Surg 1928 xvi 106

The author adds three cases of curbuncle of the kidney to the twenty seven that have been reported in the literature and discusses the ethology clinical features diagnosis, and treatment of the condition. He believes that cribuncle of the kidney may be diagnosed with considerable accuracy and is a distinct tablogical and chinacal entity.

JOHN G CHEETHAN M D

Gruber C M The Peristaltic and Antiperistaltic Movement in Excised Ureters as Affected by Drugs J Urol 1928 xx 27

In experiments performed by the authors on exused long segments of the furters of pigs, spon taneous peristalite and antiperistalite contractions were observed. In some cases they occurred as long as one hundred and eight hours after exusion of the meter. Finds placed in the lumen of the ureter were propelled from the kidney end toward the blad der end during peristals and in the reverse direction during antiperistalist. The force of the ureteral contraction was dependent upon the rate of contraction. Stronger contractions were always noted after longer periods of rest.

The effect of temperature the hydrogen ion concentration of the solution epinephrin urea acetyl choline and nicotin were also determined Jones I. O. Fill. VI.D.

Jones t O zint at D

Cibert J Cystic Dilatation of the Ureter Strangulated at the Urethral Meatus (Dilatation k) stique de lureière etrangice au méat urétral) J durol méd et chir 1928 xxv 468

The author reports a case of ureteroccle on the left sade which prolipsed into the urethral meatus At first the sac emerged from the urethra intermit tently but eventually it became strangulated and gave race to urmary retention and gangerene. Before attacks of humbar pain such as a rectivability to some or attacks of humbar pain such as a rectivability with the development of cystic dilatations of the lower end of the ureter.

As the orifice of the right ureter was abnormally small the author believes that the ureterocele on the left side was due to a similar but more marked malformation

Hunner C L Calculus of the Upper Urinary
Tract Treated by New Methods End Results
J Urol 1928 xx 61

The author emphasizes the important crusal relation hip existing between ureterial structure and the formation of calculi in the upper urmary treet. Chineal expensive indicates that ureteral stones are usually formed in the inflammatory structured area of the ureter and are not as formed; believed kidney stones which have become lodged in the urster secondaris.

Clinical experience has suggested also that a calculus in the kidney may be a ureteral stone formed in a strictured area which has migrated into the kidney as the result of dilatation of the ureteral channel above the stricture

However most renal calcult undoubtedly one inate in the Lidney and in all probability their forms tion is due largely to the urinary stasis caused by

preteral stricture

It is emphasized that the presence of ureteral stricture and the consequent urinary stasis are not the only factors necessary for the formation of stones in the upper urmary tract if they were such stones would be far more numerous Rosenow and Meisser have been able repeatedly to cause the formation of renal calculi in dogs by producing a focus of infection at the root of a devitalized tooth by moculating streptococci grown from the unne of patients with multiple recurrent calculi. Keyser was able to produce calcult in the kidneys of rabbits by feeding experiments

The author urges that as their contribution to the solution of the problem clinicians make careful observations of every patient with urinary calculus with regard to the possible effect of climate diet metabolism infection and other factors supposed

to influence the formation of calculi He states that most patients with calculus in the upper urinary tract are subject to some form of

urmary stasis and the most frequent cause of the

stasis is ureteral stricture Stricture can be demonstrated not only on the side of the calculus but also on the other side. The symptoms and many of the pathological changes which were formerly ascribed to the presence of a stone are probably due more often to stasis caused

by one or more strictures In dealing with calculus in the upper unnary tract our chief concern is the establishment of ade

quate renal drainage. The advantages of such drainage may be summarized as follows Thorough ureteral dilutation leads to the

spontaneous passage of a large percentage of

ureteral stones The use of the various ureteral stone extrac

tors is facilitated and made less dangerous The total kidney function is increased and

the general health is improved

4 In some cases the patient is changed from a poor operative risk to a good one

In many cases in which operation is contra indicated on account of advanced age obesity cardiac or lung lesions or other conditions the pa tient is made more comfortable and his life is pro longed

6 Operation may be deferred for months if necessary to meet the convenience of the patient

7 If the working capacity of one kidney seems to be zero at the time of the first examination the dilatations may be kept up for at least a month to determine whether this kidney can be made to resume effective function. This is of great value in deciding before the operation whether a radical or a conservative procedure is best. 8 Prolonged postoperative sinus drainage is avoided and a much higher percentage of the

decreased C REPRESENTED CROWLEY M.D.

patients leave the hospital without urmary infection. o The tendency toward the recurrence of calculus in the kidney operated upon and toward the formation of a calculus on the opposite side if

Foley F R : Ucetero-Ureterostomy as Applied to Obstructions of the Duplicated Upper Uringry Truct J Urol., 1923 XI 109

The author reports a case of obstruction at the lower end of the ureter due to a calculus in whi hie performed a uretero ureterostomy similar to an entero ureterostomy He states that even when the obstructed half of a duplicated kidney is bally damaged by hydronephrosis uretero-ureterostomy is free from the dangers of heminenhrectomy and is to be preferred to heminephrectoms if there is no serious objection to leaving the hydronephrotic hill of the Lidney It is especially indicated when the

opposite kidney is absent or seriously impaired End to-end anastomosis with resection of the seg ment of ureter between the anastomosis and the point of bifurcation may be done or side to side anastomosis without resection of the ureter as 12 the case reported Under certain circumstances anastomosis of the two pelves rather than of the

ureters might be more effective J SIDNEY RITTER M D

kidd F The Stump of the Ureter After Nephrec tomy The Indications for Primary Nephro Ureterectorny Bril J Surt 1018 Evt 12

Kidd states that before a nephrectomy is unde taken the condition of the ureter should be deter mined as in some cases the removal of the ma portion of the ureter in addition to the kidney and be found to give very much better after results than nephrectomy alone In the past when silk was used for ligating the ureter symptoms of renal cohe fever and strangury sometimes occurred during con valescence and later a stone occasionally formed around the silk ligature Subsequently the tone and the ligature were passed or a second operation was necessary for their removal. Even when silk was superseded by catgut the same postoperative complications arose Such attacks were relieved by the passage of a quantity of pus in which portions of the catgut were often present

The contents of an infected ureteral stump may discharge themselves periodically with attacks of fever colic and strangury or may leak into the surrounding tissues and set up a mass of dense flore fatty tissue containing loculated masses of pus and even urine causing severe symptoms unless \$ secondary ureterectom) which may be a ve y formidable undertaking is carried out

The more common indications for primary nephro ureterectomy are (1) hydronephrosis sim

ple or infected in which the stricture is low down in the pelvic ureter (a) pyonephrosis or atrophic hol lowed septic or aseptic kidney secondary to a stone long impacted in the pelvic ureter and (3) tuber culous pyonephrosis associated with an inflamma

tory stricture in the pelve ureter
Rare indications are (r) papulloma of the renal
pelves with secondary deposits in the ureter (s)
reprinted to the congenital
opening of the ureter into the wall of the vagina
seconded with congenital
second to the congenital
the congenital of the period of the congenital
opening of the ureter into the wall of the vagina
second with congenital
the congenital congenital
of the congenital congenital congenitation of the congenitation o

has extensively damaged the wall of the ureter but

In the technique used by the author the kidney is exposed first and is freed with the lumbar ureter. The kidney pedicle is divided in the usual manner and the ureter is clamped as low as possible and divided with the cautery or with the kidney still attached is left suspended from the lower end of the wound. The wound is then stitched up and dramed and the patient is turned on his back. In the easier types of cases the ureter is found through the author's muscle sphitting operation. In the more difficult cases with obstruction in the ureter as provided was as the bladder wall the ureter is approached by a midline or paracentral incision with the rectus muscle drawn outward. Guzery I Troussa M D.

BLADDER URETHRA AND PENIS

Fdelman L. Muciparous Glands in the Mucosa of the Urinary Bladder J. Urol. 1928 xx 211

Edelman reports two cases in which operation was performed for the relied of frequency, dysuma and harmaturia and prior to the operation an accurate diagnosis bad not been made. In the first case all of the routine unnary tests were negative but cystoscopic examination showed a polypoid edema behind the trigone which extended laterally. This hypertrophical tissue bled very readily

In the second case in which a diagnosis of car cinoma engraficed upon an old syphilitic lesson was made microscopic examination showed the bladder wall to contain a glandular structure which under normal circumstances does not belong to any part

of the bladder structures

According to Gray there are no true glands in the mucous membrane of the bladder In Piersol's opinion the glands under discussion represent abortive prostatic tubules which were displaced during develonment.

Stock and Zukerkandi have reported three cases in which microscopic examination showed the development of intestine like mucous glands in the bladder wall

It has been suggested that adenomata of the bladder have their origin in the embryonal rests from which such glands develop other theory the condition is a proliferation and

metaplasia of the surface and not a true gland formation

As the symptoms are not characteristic the diag

as the symptoms are not characteristic the diag

Morson A C Observations on the Radium Treat ment of Vesical Carcinoma Proc Roy Soc Mrd Lond 1028 XX 1655

After fifteen years experience with radium the author concludes that the most important advance in our knowledge of the changes in cells both nor mail and malignant was Cant's observation that fibroblasts are not destroyed by comparatively large doses of radium and that fibrobus tissue is the protective reaction of the body in its resistance to malignanc. Drew demonstrated that fibroblasts inhibit the growth of malignant tumors outside the body

The author's technique for the treatment of vesical carcinoma is based on the observation that fibroblasis restrain cancer cells and that they resist

radium seeming even at times to be stimulated by it Before the treatment is begun the relation of the tumor to such structures as the preter rectum and large vessels must be noted. In the application of the radium care must be taken to prevent con striction of the ureter from fibrosis resulting from the irradiation and it must be borne in mind that radiation in close proximity to vessels may result in thrombosis Transurethral access to the tumor requires the services of an expert cystoscopist. The exact extent and character of a bladder tumor are difficult to ascertain through the cystoscope espe cially in the presence of hæmorrhage or severe infection. Cystoscopic application of the radium is often possible however and is of advantage as it does not require anasthesia or cystotomy

Careful observation of a bladder tumor is possible only by suprapube cystotomy. The technique is described in detail. The tumor is exposed so that a vixual and digital examination can be readily made through the suprapube incision. Binanual examination with one hand in the bladder and the other be tween the external bladder wall and the bony pelvis reveals the exact extent of the tumor and its rela

tion to the ureter blood vessels of sue and nerces Papillomatous tumors are treated by transfiring the pedicle with 0 g mm platinum applicators with a sufficient dosage to insure complete destruction of the cells. The amount depends upon the size of the tumor. The duration of exposure is twenty four hours. Silkworm gut attached to the radium protudes through the sutured bladder and abdominal incisions and is used to withdraw the radium at the end of the exposure. In ulcratine types of lessons radium applicators are inserted into the bladder wall around the peruphery of the ulcer and sufficiently close together to insure lethal irradiation to ever malignant cell. Radium is buried also in the external

bladder wall with strings attached for its with drawal through the same incision

On the basis of experiments carried out by Cone land the author injected a bladder tumor with a per cent fluorescine before irradiating hoping for increased action since fluorescine gives off secondary rays under the influence of radium rays result was encouraging

Sensis must be eradicated before irradiation and guarded against during the reaction. After the teradiation hamotrhage is stopped within a few hours The immediate local and general results are encouraging. The remote results vary with the size and nature of the tumor and the efficiency of the technique. In large tumors there is considerable central sloughing after three months Retter results are obtained with larger amounts of radium for twenty four hours than with smaller amounts for

many days. Case histories are reported in detail. The author concludes that while vesical carcinoma cannot be cured by radiation alone shookage even to apparent disappearance can be brought about and hamorrhage can be controlled by such treat In the discussion of this report Thomson

ment

WALKER stated that fibroblasts also are destroyed when the dosage is sufficient. He cited favorable and unfavorable expenences with radium. He believes that the use of radium in the treatment of bladder tumors should not be restricted to cases in which other measures have failed. In cases of operable tumors however radium irradiation is not ad vi able as it renders operation difficult

Nirch stated that he prefers the use of smaller amounts of radium over a period of from five to four teen days to the administration of the same dosage

in a few hours Kipp described the implantation of plass or platinum walled radon seeds for long continued arradiation. He stated that a c mc in platinum seeds of o a mm thickness should not be placed in the blidder in greater numbers than eight or ten at a Sloughing and sepsis are less frequent if divided implantations are made. Lidd reported twenty three cases of bladder tumor treated with radon implantation after electrocoagulation stated that in malignant disease of the bladder partial cystectomy is the method of choice but he urged careful use and observation of radium

Mossoy in concluding the discussion repeated that in his opinion fibroblasts are the most re istant of all cells to irradiation. He believes that before long he will use radium in operath cases emphasized that large doses for a short time are less devitalizing to normal structures than small amounts for a long time He prefers radium salt to emanation 1 JAMES LARRIS M D implants

Mouat T B Urethral Diverticula Bet J Surg 1028 XVI 51 After presenting a classification of urethral diverticula the author describes several cases re

ported in the literature to illustrate the various types. He reports two cases of his own in detail and discusses the chology diagnosis and treatment of the condition foir (CHERTHAN M D

kidd F Willigan E T C Ward R O Ward F and Others Discussion on the Treatment of Urethral Stricture and Fistulæ by Escision I rot Roy Sor Ved Lond 1018 xx 1616

Amp states that operations for urethral stricture are of two types (t) partial excision a stop of mucosa being left on the roof of the canal (Albar ran) and (2) excision of a large portion of the urethral canal including the roof followed by anastomosis of the cut ends (MacGowan and Russell) The advantages of the latter are that it does not interfere with the blood supply of the urethra or the power of erection and prevents recur

rence of the stricture Russell does not onen the bladder but exposes the deep urethra behind the structure by the loung procedure for permeal prostatectomy MacCowan advocates a preliminary suprapubic cystotomy two weeks Lefore the operation and pre operative miss tion of the urethra with methylene blue to map out the track of the stricture

The steps of the operation are as follows

In inverted I incision is made in the pen пецт

The musculature of the perineum is exposed forward as far as the testicles or farther if necessary and backward sufficiently far to expose the central nemneal tendon

3 The central tendon of the permeum is stretched with Young a retrictor and divided close to the bulb The central tendon of the bulbocavernosus mus le s split and pushed aside from the corpus spong osum and if necessary the transverse perineal muscles are cut Russell also cuts the recto urethralis mustle to expose the membranous urethra

4 A Wheelhouse staff is passed to the stricture and the urethra opened freely in front of this and

held aside by sutures

5 A retrograde Lougie is passed from the blad der the deep urethra is opened upon it behind the stricture and the urethra is held aside by sutures In Russell's operation the deep urethra exposed as in perineal prostatectomy is opened behind the stricture 6 The tunnel of the stricture is then followed up

and split on its lower surface from the health) prethra behind to the healthy grethra in front

7 The strictured portion of the urethra is then cut away altogether in contrast to the partial operation in which a strip of mucosa is left on the roof of

the urethra 8 Russell than mobilizes the urethral stumps

makes flat ribbons of the urethra in front and be hand sutures these ribbons together to form a new roof for the urethra fixes a perineal catheter into the bladder and leaves the floor of the urethra and the front of the wound open MacGowan passes a catheter from the meatus and satures it into the deep urethra splits the mucosa of the two portions of the urethra into three ribbons and sutures these ribbons up completely around the catheter. He then closes the perineal muscles around the urethra and leaving the suprapubic tube in the bladder for two weeks. The urethral catheter is left in place for tendays and at the end of two or three weeks and the catheter is the constraint of the co

kidd has employed excision of stricture only for certain types of cases (i) those with a hard tunnel stricture which is palpable in the perineum from outside and does not respond to dilatation and (2) those with perineal fistulæ through which pus and

urine escape

For old strictures and perineal fistulæ Kidd has abandoned external urethrotomy and has developed a technique of his own At the beginning of the operation suprapubic cystotomy is invariably done This allows for the passage of a retrograde bougie After its introduction the bougie is held in place and the patient is put in the lithotomy posi tion Through an inverted 1 incision the perincum is then exposed and all fistulæ and fibrous tissue are freely excised. A good result can be obtained only by cutting out all tracks and their surrounding thick fibrous tissue walls freely and boldly paying no regard to the superficial tissues and taking care only not to cut the compressor wrethra muscle. In the next step of the operation the perineal muscles are defined as clearly as possible and after division of the central perineal tendon with preservation of the recto urethralis muscles the bulbocavernosus tendon is divided the corpus spongiosum surrounding the urethra being thereby exposed in front of the stric ture and the urethra is opened on a Wheelhouse staff 1 retrograde sound passed from the bladder renders section of the posterior group of perincal muscles unnecessary The stricture always eems to he in front of the triangular ligament and can be cut out from before backward as far as the retrograde sound which bulges forward at the anterior layer of the triangular ligament. The distal portion of the urethra is then mobilized and the two ends of the urethra are united by a double crossstitch with a good bite in the ti sues outside the prethra lateral walls and floor of the urethra are recon structed around a sound passed from the mentus and the permeal muscle is stitched together again The sound is then removed and the superficial tissues are united partially around a gauze pack The suprapubic tube is left in the bladder for two weeks I rom seven to ten days later a metal bougie of moderate caliber is dropped into the bladder The wounds may leak for a while but complete healing usually results in three or four weeks healing has occurred soun is are passed for a while

In haids opinion excision of the stricture combined with complete excision of the fistulous tracks should be done more frequently instead of external urethrotomy in cases of perineal fistula with stric ture tunnel stricture in the bulbous urethra per sistent tunnel stricture after rupture of the urethra and possibly also tunnel strictures in the penile urethra These strictures usually prove very resist ant to internal urethrotomy and dilatation. Kidd believes that better results are obtained by supra pubic cystotomy and bold excision of such strictures Without suprapubic cystotomy there is danger of leaving a penile fistula. For cases of ruptured urethra kidd advocates suprapubic drainage fol lowed by penneal exposure the use of a retrograde boughe to identify the proximal end and suture of the roof only of the cut ends the permeal wound being left freely open without the introduction of an indwelling catheter. He gives i gr of thyroid extract by mouth every night for many weeks to soften the fibrous tissue of a stricture so that it will

be more amenable to dilatation MILLIGAN emphasizes the fact that the inflamma tory process responsible for a urethral stricture is almost entirely confined to the roof of the canal Most of the urethral glands and depressions infected in gonorrhom are situated in the roof of the anterior urethra and the resulting inflammatory nodules are visible on the roof of the air distended urethra occasionally at the sides and very rarely on the floor Usually these nodules disappear under proper treatment but occasionally they are followed by fibrous tissue formation leading to stricture First signet ring and then a lubule or crescent of fibrous tissue appears which usually involves the roof but sometimes either or both sides and the roof This stage is detectable by urethroscopy No case of gonorrhox should be allowed to pass beyond A stricture in this stage which Milligan desig nates as Type 1 is easily and successfully treated by dilatation with sound and dilators Such a stricture becomes white toward its central lumen and appears entirely avascular being thus distinguishable from normal urethral folds At its peripheral margin it appears to be confined to the mucosa. As the condition progresses the stricture loses its pearly white color and translucent edges and becomes vascular ized and a light pinkish white. The free central sharp edges are then more rounded thick and irregular and the strictured area is more fixed on the subjacent tissue indicating deeper penetration At this time the floor also is involved so that on distention with air the lumen is usually excentric toward the floor The author calls strictures at this stage Type 2

With regard to the pithogeness of urethral structure Millingan states that the normal position of the urethra is closed and the urethral walls are in the closed position most of the day and as a rule throughout the might inflammatory products out opened plasma and cells render the issue inclusive inclusive million and cells render the issue inclusive inflammation the formula force of micruturia has little didting effort million for of micruturia the little didting effort million for the million force.

In cases of Type 1 dilatation is satisfactory full dilatation can be established. It breaks the avas

cular curtain usually in the roof and as a rule with out causing hemorrhage. In more advanced cases only the dorsal part disappears leaving an in conspicuous smull raw are: of healthy tissue. If no dilution is practiced for a week the stricture re forms. This can be prevented by an indwelling catheter. Most strictures are of this tyre.

In cases of Type 2 ranging from advanced stages of fibrous stricture to the stricture with fibrous tissue nenetrating to the perineum the selection of the proper type of operation is difficult. In all strice tures except those with perincal fistula and fibrous induration dila ation should be tried and the results gauge I by the maintenance of full dilatation as observed by the prethroscope. If dilatation fails in ternal urethrotomy should be practiced. This is usually successful because the cut is made in the roof of the urethra. The cut should penetrate past the fibrous tissue to health) tissue and should be held or en by an inducting catheter for several days to prevent recurrence. If the cut cannot be made into healths tissue in the roof a subsequent cut should be made more laterally. However excession of the stricture is perhaps a better treatment for SECURITEDICES.

Internal urethritomy is a most satisfactory operation because it is easy to perform cause little discoming the followed by quick considerance in selected cases gives excelled results. It is applicable to multiple or single structures in the penile urethra but until we are able to select and classify strictures according to the depth of penetration of the fibroast issue it will be followed in a few or a by resurrence—cases more suited for primary excision of the structure.

The cause of failure of external urethrotomy is failure to incise the roof of the urethra In external urethrotomy the procedure should be the same as in Milligan believes honever internal urethrotomy that excision of the stricture is better than external urethrotomy In cases of Type I this is quite easy The Russell technique is recommended Facision removes all stricture tissue and local diseased folls cles which the other methods fail to do It holds the urethral walls spart immediately after operation until they are set in this position by outpoured lymph and by scar tissue. As recurrences are due to subsequent detachment of the urethra the passage of a full sized sound at yearly intervals is udvisable. In cases in which Milligan has excised I or 2 in of the urethra he has found that it caused marked shortening of the penis In cases of multiple strictures he excises the most extensive stricture in the pervious and does an internal urethrotomy for penile strictures

Milligan recommends excision of the stricture for all cases not easily managed by dilatation and in ternal urchhotomy. He states that if it were possible to estimate the depth of the penetration of the fibrous tissue in the urchira and the depth of the incision with the urchirotome the selection of cases of suitable operation would be easier. At present

this can be guessed at from the appearance of the structure through the urethospope. All case of penneal fistules with fibrous induration associately with structure are suitable for excession fisuchase other methods are unwise. All fibrous issue where ver seen, should be exticated all tracts should be followed even to the ingulard reposs and lower obsolumen and all fibrous tissue should be cut home the other and the proposal of the conbellity issue. As long as shreef of the turble can be several together to the roof with it also had excellent requisit from the stechnique.

R O Wasp states that he does not use the retractor. After exposure of the corpus spongroup the stricture is easily felt. Ward works away from the diseased part going well forward to di lodge the whole corpus spongio um from its bed After a little de section with curved Mato scusors the finger can be passed around it Thus the whot circumference of the urethra is cleared in front of the stricture. In dealing with a fistula the blander should be opened first With a steel bouge from the bladder in position the urethra behind the sin ture to usually brought into view if not careful disection is necessary to expose it Usually Ward fin's the dilated part opens it and excises the strictured part II this is difficult the whole corpus spongosum being mobile in front is cut across just anterior to the stricture the thickened part is cut away and the health; urethra is found belind it. The torn ends are then sutured together I hen the stricture is close to the triangular ligament it is difficult to get the catheter to lie so that it does not touch the suture line A stricture located half an ench in front of the triangular ligament is easly operated on but in strictures very clo e to the triangular ligament operation is difficult. Only the mucous membrane should be sutured. The whole thickness of the corpus spongiosum should be in cluded in the sutures to prevent them from cutting out Dilatation and internal urethrotomy are good methods of treatment but when a guide cannot be passed excision of the stricture or external urethrot omy is necessary. In Ward's opinion the latter is not very useful and is to be regarded as an opera tion of emergency For retention cystotomy is necessary When a guide cannot be passed excision of the stricture is advisable

I Was states that if the urethroscope shows a dapphragm structure what does not respond to three or four dilatations external urethrotomy us might as the state of the state of an important artery with harmorths which can be stopped only by extraptation of the beaus in the presence of various severe structure. Ward cuts down upon urethra. The passive of goods helps the operation of the the state of the sta

Ward cuts through the stricture and does whatever eems indicated. He has found that a silver catheter can be left in for a week without causing sepsis. When the passage of a silver catheter is prevented by a large amount of fibrous tissue complete excision is the only course especially if sinuses lead from the pubes or the perineum. The bleeding is not very severe

In a case of extravasation of urine after a severe injury adhesions to the penneum resulted and the penneum gave way after each attempt at didation. Ward performed a plastic operation turining a flap over from one side to the other. Healing was very assistatory but the urethroscope revealed hairs soon after the operation and four years later difficulty was again experienced in passing a bouge. Ward therefore performed another external urethroscopy and destroyed the hairs with the cautery. The patient has now a perfect urethra formed of external skin and is in good health.

Too cases of stricture of the anterior urethra are cited in which the stricture was 3 in in length extending to the penoscrotal juncture. In the first case that of a man sevently years of age retention occurred suddenly and only a filiform bouge could be passed Suprapubic cystotomy was done and later an artificial meatus was made in the perincum was only a filiform bouge could pass from this meatus to the end of the penis a modified Duplay operation was done. The whole anterior urethra was recon

structed from a longitudinal flap of skin
In the other case there was a fistula in the peno
scrotal area and the procedure tried in the first case
resulted in sloughing of the whole penis because of
disregard of Young's statement that plastic opera
tions should not be done on the anterior urethra
unless there is drainage from the bladder or the

permeal wound

Ward is not convinced of the congenital origin of structures of the anterior urethra. For stricture of the meature which sometimes in associated with fibrosis of the penis and atrophy of the corpus spongrousum he recommends opening of the bladder or the formation of an artificial meatus in the

permeum

WRIGHT states that dilatation with filiform bougies and internal urethrotomy have several disadvantages He has observed extravasation after the operation even when the catheter was retained The posterior urethra may be difficult to find but Wright relies on the observation that behind the stricture the urethra is always dilated. He cuts down on a Wheelhouse staff defines the surface of the stricture and then slices the urethra transversely until he reaches the dilated portion. Mobilization of the urethra is a very important part of the opera After excision it is important to secure approximation of the edges around a catheter passed into the bladder because a gap in the floor of the urethra favors fibrous tissue formation. Wright beheves that in the ordinary case suprapubic drainage has no advantages over perincal druinage. When it

is possible without going behind the triangular liquid that the state of the hind the sutured urethra over a catheter passed into the bladder and through this microin passes another catheter for drainage. This method gives results as good as those of suprapuble drainage. Wright be lieves that an instrument should be passed as far as the retained catheter as early as the fifth day after the operation. This will prevent adhesions between the floor and the roof of the urethra. When the retained catheter is removed a large sound can be easily dropped into the bladder. For suturing the urethra, Wright recommends figure of eight sutures with fairly large bets of the spongy tissues with fairly large bets of the spongy tissues.

In one case cited partial incontinence resulted from interference with the sphincter

BERTWISTLE reports some perfect cures from operation and also some recurrences the latter worse than the first stricture and probably due to insufficient excision of the diseased tissue

Morson states that excision is indicated particularly when the stricture is due to trauma. In gonorrheea measures to prevent stricture formation are most important. Morson believes that many severe strictures of the urethra are the result of

maltreatment by physicians

WHITE states that in his opinion the internal operation is far superior to external urethrotomy The worst strictures he has had to dilate were those following external wrethrotomy. Occasionally he has seen strictures which would not admit even a filiform bougie However there are very few strictures which cannot be negotiated with such a bougie especially one of the corkscrew type if patience and the right kind of a guide are used. Urethroscopic studies show that strictures of the anterior urethra are not uncommon although they are not usually so far advanced as strictures in the bulb. In the average case of stricture of the bulb a number of early lunules associated with follicles can be seen within 2 5 in posterior to the navicular fossa. The stric ture is really an extension of the inflammation at that spot Internal urethrotomy gives successful results because all of the early strictures can be divided with the urethrotome and the follicles are also onened un

HUDDY claims that the results of internal urethrot omy depend almost entirely upon the patient's willingness to return to the hospital at reglular inter vale for distance.

vals for dilatation

In summarizing KIDD agrees that internal ure throtomy is of value but states that in his opinion external urethrotomy should be abandoned. He always excuses fistulae completely and has found that cases in which this is done require less didatation afterward. He uses a very small urethrotome kinder to avoid deep cutting with severe bleeding. He believes it is best to make a small nicision and then to stretch with large bouges. Excision is applicable to both perioral fistular and difficult structures. The essential steps in the operation brought out by the discussion are.

T Division of the bulbocavernosus muscle in the midling to permit blunt exposure of the corpus spongrosum

2 Blunt dislocation of the corpus spongiosum containing the weether in front of the stricture

Resection of the stricture backward from the urethra so freed and opened until the dilated urethra behin I the stricture is opened up

Suture of the roof of the urether

The question as to whether better results are obtained from preliminary suprapubic cystotomy with drainage or perincil drainage through the deep urethra is left open LOUIS SECURIT M D

GENITAL ORGANS

LeFur R Operative Treatment of Abscess of the Prostate (Trait ment opératoire des abscés de la prostate) Juris chi 1918 xx 36

Operative treatment is indicated for prostatic absces only when the abscess is of a certain size or having of ened into the urethra or the rectum can not be cured by ordinary measures such as massage of the prostate and progressive dilutation of the posterior urethra combined with copious urethro vesical lavage. The persistence of fever in spite of the spontaneous opening of a prostatic abscess and especially the appearance of periprostatitis is an indication for surgical intervention

The abscess may be opened surgically by (1) the rectal route (2) the hypogastric route (when the patient has undergone a prior cystostomy) or (3) the perincal route. The procedure of choice is

perineal prostatomy In the technique used by the author the skin is incised two fingerbreadths anterior to the anus from one ischiatic tuberosity to the other. The incision is made shehtly convex anteriorly in order to avoid the rectum as much as possible The posterior sur face of the urethra is then isolated because the deep incision is made immediately below it. The super ficial an I deep muscular raphes having been incised the prominence made by the urethral sound is followed to the posterior surface of the prostate If both lobes are equally large and tense they are opened separately The opening is made with a cannulated sound or a bistoury and enlarged with the finger the cavity of the abscess then being emptied very carefully and drainage established by means of a rubber tube

Daily lavage is begun one or two days after the operation. The dressings are change I daily as long as the suppuration 1 abundant and when the suppuration decreases every two or three days. On the sixth or seventh day the rubber drain is replaced

by a wick Vaccinotherapy is given by local application or subcutaneous injection. In case of pozing hæm orthage the abscess cavity is tamponed with vicks moistened with hemostyl If the hamorrhage is arterial the artery is ligated. In cases with a urinary fistula the wound is kept open. If the fistula does not close as the wound heal at is sutured. When the fever and poor reperal condition persist a further prostatic or periprostatic focus is sought and tests for a blood infection are made. If there are number fistula of the ischiorectal fossæ the obturator of the retropubic region an incision at the focus is made

MISCELLANEOUS

Eisendrath D N Anuria Munesola Med 1928 p

I isendrath divides cales of anuna into those of the obstructive type those of secretors anuma and the e of transition or combination anuna linunas

of the obstructive type include

t Unilateral block by calculus stricture unuror neoplasm the other kidney being normal The anuria in such cases is best explained by reflex in hibition of the secretors activity of the other kidnev

2 Unilateral block with congenital absence lack of development or complete loss of function of the other kulney as the result of duca e injury or

operative removal

3 Bilateral block from the presence of a calculus or stricture The secretory anumas include those due to disturbances of circulation proximal to the lad es itself and disturbances affecting the renal par

enchs ma In the third group may be placed anumas follow ing transfusion burns and gas bacillus infection In these cases there is an obstructive factor in the form of blocking of innumerable renal tubules by hæmoglobin crystals and resultant interference w h

the secretory activity of the parenchyma of the kidney I rom the standpoint of symptoms cases of anuria may be divided into those in which aside from the anuma there is complete absence of symptoms until the period of tolerance has been passed those which present only minor degrees of

intolerance and those in which the period of tol erance is very short (from t venty four to forty eight hours) By period of tolerance is meant the interval between the time when the anuria is first noticed and the appearance of symptoms of uramit. This interval varies from twenty four hours to twenty me days. In some cases there may be hiccough nauses

vomiting slight muscular t vitching and frowsiness These must be looke I on as warning signals of the advent of the period of complete intolerance. In the latter the two outstanding symptoms are coma ar

convuls ons In diagnosis of the cause of anuria an early and

complete urological examination is necessary to exclude the presence of an obstruction due to cal'a lus or struture of the ureter an I to diminish the percentage of cases allowed to progress so close to the end of the period of toleran e that relief comes too late

The secretary type of anuria may be differentiated from the obstructive type more rapidly by roentgen ography combined with cystoscopy and ureteral catheteraxion than by any other method. Heystoscopy shows two normally located ureteral ornices and in no obstruction is encountered when a ureteral catheter is introduced for a distance of from 28 to cm on both sudes the anura cannot be of the obstructive type in ou runn is obtained. Py-dography is contain judicated during anura. Chemical examples to contain the control of the obstructive type in ou runn is obtained. Py-dography to contain judicated during anura. Chemical examples of the control o

The prognoss of secretory anuna is less favorable than that of aniura of the obstructive type. The therapeutic measures include the administration of large quantities of fluid by protectlysis hypoder moclysis intravenous administration or the use of the doudenal tube. Nerve blocking of the splanchine nerves has been advocated to relieve reflex inhibition of renal secretion. The author has had no of renal secretion where the substitution of the secretion of the substitution of the secretion of the substitution of the secretion of the secretion of the substitution of the secretion of the secretio

Decapsulation has been reported successful in cases of reflex anima but in bichloride nephrosis its results have been less favorable. In obstructive anum ureteral catheterization offers the best prognosis. It should be given a trul for forty eight hours but no longer.

The type of operation to be employed in cases in which all other methods have failed depends some what upon the preference of the surgeon Some surgeons prefer nephrostomy others pyelostomy and still others ureterostomy with removal of the calculus at the same stage. Much depends upon the condition of the nation! If operation is undertaken during the first days of anuria when there is no evidence of intolerance it is justifiable to remove the calculus which obstructs the ureter or renal pelvis and utilize the ureterostomy or pyelotomy for drainage purposes If symptoms of intolerance are noted it is advisable to limit the intervention to pyelostomy under paravertebral anæsthesia and remove the ureteral obstruction secondarily. When the blood chemistry shows a total non protein nitrogen of 150 mgm per 100 c cm and a creatinin of 5 mgm neither non operative nor overative measures will be of much avail HENRY L. SANJORD M.D.

I WI E DIGORD OF

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Coley W. B. The Differential Diagnosis of Sarcoma of the Long Bones J. Bone & Joint Su. g. 1928 x 420

Coley applies the term periosteal sarcoma to all types of malignant tumor of the long bones which

are not of central origin

He states that in the diagnosis a good history is of first importance. This should include the patients age the facts regarding the occurrence of local training the control of the facts of the neoplasm (shaft or end of the bone) the length of time the tumor has been present and the duration of the symptoms before the tumor appeared. In the physical examination the chief determinations to be made we the color of the skin the presence or absence of dilatation of the super ficial weight the local temperature the consistency and size of the tumor the occurrence or non-occur and size of the tumor the occurrence or non-occur accept the state of the superstantial condition and the condition of the advanced ton!

Of a group of 170 patients with periosteal sar coma of were between ten and twenty years of age 41 between twenty and thirty and 27 between thirty, one and forty. Therefore 135 were between ten and forty years of age. Of 50 patients with guant cell tumors 36 were between ten and forty

years of age

The first symptom of sarcoma of the long bones is pain of an intermittent and varying character which increases in intensity as the tumor grows

Trauma plays a very definite role in the development of the lesion. Of the 170 cases of periosteal sarcoma a history of local injury was obtained in 87 and of the 50 cases of giant cell tumop, such a his

tory was obtained in 28
In decreasing order of frequency of involvement
the bones affected were the femur tibia fibula
humerus radius ulna and clavicle. In the femur
the tumor developed most often in the distal end
whereas in the tibia fibula and humerus it occurred.

most frequently in the proximal end
A tumor of small size and long duration is most
probably benign while a tumor of large size and
short duration which is accompanied by pain is
leaves such to be malicipant. Mississ assisters and

almost sure to be malignant. Myositis ossificans and ossifying humatoma must be ruled out. A purple discoloration of the skin due to dilatation of the superficial veins overlying the tumor is strong

evidence of malignancy However this is a rather late sign

late sign

The consistency of a bone sarcoma may be described as firm but not hard. The neoplasm is softer than an ossifying harmatoma and harder than tuberculous ostetits. In the later stages it may

become soft or even fluctuant. If a joint is involved at an early stage the tumor: probably not a sar coma. The local temperature may be elevated but general fever is absent except in later stages with mediatases.

Roentgen ray examination may allow a positive diagnosis in (1) setogenetic serroms with relating bone lines at right angles to the shaft (1) mostite ossicians and (2) endotheloms in the interpretation of the noningen findings it is necessive to know at what stage of the growth the rocations of the control of the control

The author is not opposed to biops as he is of the opinion that the danger of dissemination is theoretical rather than practical. However, the emphasizes the danger of infection and states that diagnostic biops should be limited to case, in which a positive diagnosis, cannot be made by din ical means. He believes that in cases of central and gaint cell tumors biops, should be a part of the treatment. It should not be limited merely to be removal of a small portion of the timor but should consist in a complete and thorough curetize down to healthy bone. In tumors of the illum bujly should never be done as these neophasms are preclucially all inoperable when they are first disposers.

Aneurism may cause pressure necrosis of a bone simulating sarcoma but the clinical history and Wassermann test will aid in ruling it out difficulty may be experienced also in differentiating a Lwing tumor (endothelioma) from osteomy chitis In z case in which the bone lesion was thought to be subacute osteomy elitis even after operation and later proved to be an endothelioma the surgeon recalled that he had found the bone in layers Such a laminated structure is an important feature in the differential diagnosis. In another case the condition was at first thought to be a surcoma but as the pathological report was benign amoutation was not done At operation the bone looked like normal callus but later the tumor proved to be endothe lioma and the patient died of metastases following amputation

In 2 cases coming under the authors observation myositis ossificans was mistaken for sarcomabecause too much reliance was placed on a pathological report of malignancy. Both patients recovered after treatment was stopped

The difficulty in differentiating between chronic osteomychits and sarcoma is illustrated by z cases in which death occurred from metastases in the lungs after treatment had been given for eight months and three years respectively for osteomychits. The question arises whether in such cases the

original condition was merely an inflammatory process which later became malignant or whether the sarcoma cells were present from the beginning but so sparse as to escape notice on microscopic examination. The author favors the former view and cites 2 other cases in support of his opinion.

Osteitis fibro a cystica may also resemble osteogenic sarcoma. If the patient is between five and fifteen years of age the tumor is more apt to be a

cyst than a sarcoma

The differentiation of hone sarcoma from syphilis should not be difficult in these days of the serological text. The luctic hone lesson is rarely single and occurs most frequently in the tibial shaft and the clavicle

Tuberculosis of the bones is much slower in its course than sarcoma and the pain associated with its less severe and is easily controlled by immobilization. In sarcoma the swelling almost always begins in the diaphysis whereas in tuberculosis it begins

in the epiphysis

With regard to the differentiation of chondroma from sarcona the author states that his experience has led him to discount the importance of micro scopic examination especifly when the tumor is growing rapidly. In the diagnosis of chondroma however the roentgen ray is of great and as the roentgenographic appearance of the tumor is quite characteristic.

The endotheloma of Eung usually myolves from A when to a first seed to the shaft when it is first seed. In tory of trauma is obtained in these cases about as frequently as in those of sarrows. Apparently the neoplasm sometimes originates in the perosecum. There is not much home destruction and the bone production takes the form of this lives parallel with the shaft. I requently the skull is involved to the unique fivous more readily than strooms.

While it is generally believed that a correct diagnosis between gant cell tumor and osteogene sar come can be made on the basis of rinneal and intergenological evidence alone it has been noted at the Hospital for Ruppured and Crappled that an reliance has been placed on these findings alone. The giant cell tumor is usually a dark red or gravally red transputated firable body, in the epiphysed region which grows more slowly than a sarromar and seldom forms metalizates. Six tumors in the author is series to be a supplementation of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the proting of the properties of the properties of the properties of the proting of the properties of the properties of the pro

With the visibility of strong from one bone to another Metritases of strong from one bone to another to another the visibility of the vertebra and ribs with metastace, until the strong common of the tasses common and the cross of cases of car mora of the breast the form crymona of soft tasses common and the cross of cases of car mora of the breast the not tence of bone metastass was found to range from 13 to appear cent. His pernephroma forms bone metas assess in about 10 per cent of the cases The differential languous of metasta es of hyperrephromata tases in about the because the primary tumor is often at most difficult because the primary tumor is often

so small that it does not cause symptoms and there fore escapes detection

Paget's disease confined to a single bone may be mistaken for sarcoma. The author believes it is impossible to differentiate between these 2 conditions without a hosps and microscopic examination. He reports a case with a lesion in the tibia in which every 3 mytom and objective finding indicated laget's disease but liter developments prove the tumor to be malignant. Amputation was done and the microscopic examination showed the neoplasm to be a chondrosarcoma. William § Cark MD

Leriche R The Problem of Osteo Articular Diseases of Vasomotor Origin Hydrarthrosis and Traumatic Arthritis Genesis and Treat ment J Bone & Joint Surg 1948 x 492

In discussing the genesis of bydratthroos and arthritis of vasonotro origin. Lerche says that trauma in the region of a joint produces at this level a hypersmic reaction. If this persists for longer than ten days it results in synovial osseous and cartilagnous changes. In the synovia (in a joint of large size) it produces a true subscute aseptic syno vits with marked evudation of fluid thus certing a hydratthroos. In the bone it produces active rerelaction a lacinari osteoporosis which is evident in roenigenograms. When the tarefaction reaches the subchoodral pottion the cartilings becomes defined in the cartilings becomes designed in the cartilings becomes designed in the cartilings and the cartilings becomes designed in the cartilings because designed in places may be destroyed. Traumattic arthritis is

At the onset of the condition rest and the application of cold water or ice are indicated. Lenche has performed blood letting and has used leeches Massage mechanotherapy heat and plaster of I aris immobilization are contra indicated.

When synovial and bony changes have oc curred Leriche uses hi irotherapy without massage For serious ca es he recommends surgery in the form of sympathectomy and ramisection

I HILII LEWIN M D

Mannini R Lipoma of the Tendon Sheaths (Con tribute allo stud o dei lipomi della guaine dei ten lim) P I din Rome 1028 xxxx cz chir 364

The author reports a case of arborescent lipoma of the tendon sheath of the superficial flexor of the econd finger in a woman sixt seven years of age a case of simple lipoma of the sheath of the tendon of A biles in a woman forty, fix vears of age and a case of arborescent lipoma of the sheath of the tendon of the sheath of the tendon of vicilies in a box sixtens years of age.

He states that simple and arborrecent lipomata of the tendon sheaths are blastomata which are usually made up almost exclusively of fatty tissue. In the cases he reports they were more or less nich in connective tissue. In some instances they grow shoult and remain circumstibled in the tendon sheath arbille in others they surround the tendon sheath arbilled in others they surround the tendon sheath arbilled in the sheath arbilled in the same arbi

Their etiology is unknown. According to one theory they are inflummatory whereas according to another, they are tuberculous. Biological tests for tuberculo is however have been negative.

The most frequent sites of such tumors are the sheaths of the extensor tendons of the fingers. The arthorsecent form is more common than the simple. In some cases crepitation has been noted, but it was not present in those reported by the author. Some of the tumors are painful and others monless.

The disgnosis is not particularly difficult but be cause of its elasticity and fluctuation the tumor may be mistaken for an aboress. The diagnosis is aided by the movement of the neoplasm with the move

ment of the affected tendon

The prognosss is good Sometimes the tumor causes no disturbance at all When function is disturbed it becomes normal after removal of the tumor Removal of the growth is generally easy. The capsule should be dissected from the neoplasm and used to reconstruct the sheath

Libery & Morgay M D

Baranger J Two Cases of Acute Osteomyclitis of the spine (Deux observations d ostfomyflites aigués de la colonne vertificale) Bull et mém soc nal de chr. 1928 hy 780

The first case of a utle esteomy-clists of the spine reported by Baranger was that of a man twenty five years of age who while in apparently good health to year of age who while in apparently good health was sected with chills lumbar peliss and healache. Three days after this attack the patient entered the hospital and for nine days remained in a sommolent condition with a temperature of about 38 s degrees. C Soon local gaps were noted in the lower lumbar region on the left sayed. These were followed by continuous pain in the left leg and after a few days by the development of an abovess in that leg. I resume causing pain and other signs of abovess without skin change. The temperature reached 40 degrees C and the pulse ranged from 110 to 150.

At operation the third abscess was opened and you was demonstrated in the medilary canal. At a second operation a collar button abscess leading to the necrotic body of the first fundar vertebra was opened by a paravertebral necision in the lumbar reprior Cultures juelded staphilococci. Later a focus developed in the upper end of the right his metrics. A resetting organical section of the bodies of the first and second lumbar vertebra and casity formation in the later.

The second case reported was that of a fifteen year old boy who had recently suffered from furunculous and was seared with acu e lumbar pain child epitates womining and a fewer of 35 d agrees C. Pressure over the spine of the first lumbar vertebra and the surrounding of the entry lumbar contribution of the surrounding of the entry four hours acctuation developed in the region of the first kumbar vertebra.

At operation two days later a parameterlal accusion on the left safe was made the custer of the tousion currently for the center of the novel most sense that the sample may be a the sample may be a threated parameter tracted parameters and the novel control of the sample control of colloid siler autogram vaccine necessivars and anote rum. For ten days the child was depended by that after epitted days the child was depended by that after epitted days was well enough to be sent home. Compiler convert resulted.

Holm II Vertebral Tumora (Ueber Wurbeltumoren)
Deutsche Zi chr f Chir 1918 ccviii 46

Vertebral tumors are rare. From 38 to 5 pt cent of them are acrounds. The majority at fibrourcomata and are primary in the space 8c cording to Culcke the so called hour glass was constitute a distinct group of spinal cand tumor which in spite of their undoubted strenditure are chinically rather beingin and being well demarkated, are operable.

Carcinoma occurs in the vertebræ only me astatically and because of the improvement in the early diagnosis of the primary, tumor carcinoms of the spine is becoming correspondingly rare

Hispermephroma also occips in the space in the talkally and has an unfavorable prognosis. Of the beingn vertebral tumors the ostroma sub-chondroma are stare. Their diagnosis is lacinated by the receigen 123. As a rule then are not difficult or reach by operation and their process. All of the cases reported in the literature most of which were those of girls as at the age of puberty ended study.

Not belonging to the virtebral tumors but producing tumor like symptoms are the echicococcitysts As a rule these begin in the paravertient itsuses and involve the vertebra secondarily. All publications on echimococcus disease of the spatial productions on echimococcus disease of the spatial produces that the cysts occur most frequently in the upper thorace and the lower lamb t vertices of importance in the disagnoss of vertebral echimococcus are a good history the bubberg area to be considered to the confidence of the control of the control

Actinomy costs of the vertebræ has an equally unfavorable prognosis bulcke advises operation in every case since the effects of potassium iodide and roenteen itta liation are uncertain

Gummata of the vertebral column are extremely uncommon. They or ur most frequently in the cervical vertebra:

The diagnosis of vertebral tumors is difficult only in the earliest stages. The best and is the roentgen necture made after the introduction of hipodol into the spinal canal (Sicard). Sensitiveness of the vertebræ is not a certain diagnostic sign. For the diag nosis of the level of the tumor, the neurological segment diagnosis is indispensable

The treatment of choice is operation even for cases in which the period for radical removal is known to be past since decompression of the cord is followed by at least temporary improvement

is iononed by at least temporary improvement.

In conclus on the author reports in detail a cured case of chondroma of the cervical vertebra which was treated at the Heidelber, Clinic in 1026

Cotton A Giant Cell Tumor of the Spine with the Report of a Case Am J Roenigenel 1928 22 18

The giant cell tumor of the spine discussed by the author is the tumor formerly known as giant cell sarroma. It is a benigh neoplasm and usually occurs at the ends of long bones. In about 3 per cent of the cases that have been registered the tumor.

was located in the spine The author a case was that of a boy hiteen years of age who gave a history of an injury to the buttocks three years preyiously and a sprain of the lumbar muscles four months later His back was stiff and painful and motion was limited in all directions. In the lumbar region examination revealed a kyphosis and a scolosis with its convexity toward the left To the left of the fourth and fifth lumbar vertebræ a large fluctuating mass could be palpated Deform ities of the left hip knee ankle and foot had resulted from posture and muscle paralysis. The roentgeno gram showed bone destruction of the left side of the body and of the processes of the fifth lumbar vertebra and of the left als of the sacrum marked bone atrophy authout bone production and partial spondylolisthesis of the fifth lumbar vertebra intervertebral disk had not been destroyed

The pre-operative diagnosis was lumboaceral lotts disease with a lumba abuses. Surgical exploration revealed the bone destruction shown in the roniggongram and a cavity containing old blood finishing granulation tissue and loose pieces of bone There were no indications of a tuberrulous abuces and the state of the path of the state of the sta

Ifter the operation roentgen ray therapy was given and attention was directed toward correction of the deformities. Today two years after the operation some of the deformities still persist but the roentgenogram shows the bone to be restored and the patient is apparently well.

This case demonstrates that the disprious of giant cell tumor of the spine may be very difficult requiring the ail of the hit tori physical laborators and rotatigned giant examinations exploratory operations of the removature of the spine of the spine

because of the difference in the prognosis and treat

Reestigen ray treatment should be tried if the condition is discovered tail. As a vule a tumor mass deselops before the national seeks treatment and an exploratory examination is necessary. All of the tumor tissue and loose bone should be removed and pressure on the cord or canda eguina should be relieved. The operation should be followed by exteril courses of short wave length radiation. Deformities should receive proper orthopedic treatment. Under such management, the prognosus is good. Recurrences should be treated in the same ways as primary growths.

CHARLES H HEACOCK M D

Beer E Periostitis and Ostelits of the Symphysis and Rami of the Publs Following Suprapuble Cystotomies J Urol 1928 xx 233

Beer states that every year for the last twelve, years he has seen one or more cases of percentils and estents of the symphysis and raim of the pulsos following suprapubic prostatectomy or cystoomy. As the cause of these sequelar he suggests that raction on the attached rectus muscles may man gurate a localized periositiis which subsequently soreads.

The chinical picture is very striking. When the patient tries to sit up or cough he experiences pain due to the pulling of the rectus muscles against the sensitive inflamed attachment at the symphysis In some of the cases the condition is very mild and becomes localized at the attachment of the rectus muscles but in the majority it extends without any febrile reaction down along the descending ramus of the pubis causing pain and tenderness along the attachment of the adductor muscles which interferes with walking and separation of the thighs. The disturbance may last for several months finally under appropriate treatment and with time seems to go on to resolution with restoration to health The physical signs are tenderness on palpa tion of the body of the pubis and if the process is fully developed along the descending ramus down to the ischium The roentgenogram of the pubis shows a fraying of the periosteum along the descend ing ramus and perhaps areas of absorption in the symphysis the descending rams and the body of the ischium which are due to the osteitis. As the areas of absorption often strongly suggest secondary malignancy the diagnosis should not be based upon the roentgenogram alone

GEORGE C' HEYSEL M D

Henderson M S Glant Cell Tumor of the Upper Fnd of the Femur Report of Three Cases Minn vols 1fd 1928 21 542

Henderson says that a definite diagnosis of giant

cell tumor should not be made in any atypical cale without exploration and examination of the tissue by a competent pathologist. Whereas in the past many radical operations were performed needlessly today there is danger that with the increasing dissemination of the knowledge that these tumors are benign nationts who should be treated radically will be treated conservatively

At the present time the term giant cell tumor is applied to tumors that were formerly listed as giant cell sarcomata giant cell sarcomata of the epulis type hymorrhagic osteomyelitis and myelomata (a Briti h term which is still being used) The confusion that exi ts is exilent from Koloday 5 statement that hundreds of giant-cell tumors have been reported as sarcomata to the Registry of Bone Sarcoma by clinicians and pathologists in all sections

of the country There are two divergent views regarding the origin of giant cell tumors. According to one these neoplasms are blastomatous, whereas acrording to the other they are inflammatory. I or the safety of the patient it is probably better to consider them as of blastomatous origin until further proof of their inflammatory origin has been establi hed. In ca per cent of the cares in the Mayo Clinic trauma appeared to be a definite etiological factor. There seems to be a close relationship also between osteitis fibrosa

cystica an I giant cell tumor Giant cell tumors are rare in children and the aged As they are of slow growth and rarely cause much discomfort they often reach a great size Not infrequently the sign that impels the nationt to seek advice is a fracture. These tumors are most common in the lower extremities and are usually found at the end of the hone Roentgenograms show that the shaft does not continue into the tumor as it does in surcoma but that at the juncture of the tumor and the shaft there is a well developed shoul der. In the wall of the tumor pregular trabecula tions are seen. The neoplasm may completely erode the spongiosa of the epiphysis and creep along the ligaments, so that in advanced cases all roent genouranhic evidence of the normal structure of the end of the hone may be lacking. However, the tumor remains sharply circumscribed and encared in a thin shell of hone. In the advanced late cases the differ entiation from osteogenic sarcoma is difficult but it must be remembered that an osteogense sarcoma of such size rarely remains encapsulated

At operation the appearance of the tumor varies greatly according to whether or not a tourniquet is used In cases of the vascular type of tumor a brisk hæmorrhage will occur if a tourniquet is not used The older the tumor the greater the cicatri zation at the outer lavers and hence the less the ten lency toward hamorrhage. In the terminal stages of certain tumors only fluid and a definite sac lining the interior of the tumor may be left

In each of the three cases reported in this article the tumor was situated in the upper end of the

femur In the first case that of a girl of eighteen years the symptoms had been present only seven months The tumor was excised during the active period of growth when the vascular mass within the cavity could be scooped out. After the operation mention ray treatment was given

The second case was that of a woman thirty nine Years of age who had sustained an injury of the hin in a fall eight years previously while she was rieg nant I ollowing delivery the condition of the hin improved and the nationt had no more difficulty but a few years later when she was again pregnant the pain recurred. Two or three months before operation at the Mayo Clinic she again became pregnant but a miscarnage occurred in the second Roentgenograms showed an extensive month tumor in the upper end of the left femur which extended well up into the neck of the bone to the head involving the whole trochanteric area and down a short distance into the shaft below the level of the lesser trochanter Operation revealed a smooth lined cyst with walls containing many giant cells The cavity was packed with several rieces of bone taken from the tibia \ month later as the patient was leaving the hospital the bone fractured but five years after the operation she was able to walk dance and do her own housework and the roentgenographic and clinical findings indicated the occurrence of union that may well be described

as bons The third case was that of a woman aged twents four years who had been operated upon elsewhere the heal neck and trochanteric areas of the femut having been removed for grant cell tumor The tissue was examined in the Mayo Clinic laborators have years later a recurrence in the upper end of the femur was evident and excision was advised. This case demonstrates the tendency of these tumors toward local recurrence

In conclusion the author states that both of the rationts with active lesions were anamic whereas

the prizent in whom the condition was in the ter minal cystic stage was in robust health

FRACTURES AND DISLOCATIONS

Lindsay M & Relaxed Motion in Fracture Treat ment A Preliminary Report J Bo c & Jo

81 £ 1928 510 Lindsay discusses the ma sage and mobilization treatment of fractures recommended by Lucas-Championniere and recently modernized by Mennell. He emphasizes that the massage is not the applica tion of pressure or force but a gentle rhithmur stroking which is soothing an i agreeable to the patient. The purpose of the effleurage is to relieve muscle spasm. The proce lure a extremely effective when early mobilization 1 indicated but its value b inversely proportional to the length of time that has elapsed since the injury. In cases of elbow frictures reviewed by Lindsay it was usually continued for about twenty minutes. At the end of that time nitrous oxide oxygen was admini tered to permit gentle manipulation consisting in extension with moderate traction followed by acute flexion of the toint. The position of acute flexion was then main

5

D location

tained by a broad band of adhesive tape and the clow elevated on pilons. Thereafter the effluerage treatment was repeated daily for several weeks Movement in extension was stopped at the first exdence of discomfort After from fifteen to twenty days active motion was substituted for thes ocalled relaxed motion and special care was directed toward exercising the tinespe musica. All of the exercises in extension were done with the hand supmated

Scudder C The Operative Treatment of Recent Fractures Proc Roy Soc Med Lond 1918 xti 1683

Scudder states that a surgeon who operates upon recent uncomplicated fractures must possess an adequate knowledge of the patient's physical men tal social and industrial status an exact knowledge of all of the conditions bearing upon the case per fect mechanical instrumental and physical equipment including access to \ ray apparatus a proved operative technique to which he is accustomed an understanding of the sensitive nature of bone tissue its reaction to injury and the conditions influencing the process of repair practical experience in the successful treatment of certain fractures by modern non operative methods a knowledge of the various tried and accepted operative procedures for an proach to fractures and their immobilization and an open mind in the selection of the method best adapted to the case in hand

Under pre-ent conditions fractures fall into three groups (1) those never operated upon (2) those usually operated upon and (3) those in which the advisability of operation must be regarded as doubtful.

In the first group will be found Colles fracture most fractures of the clavicle many fractures occur ring in children and adolescents and many birth

fractures In the second group, those usually operated upon are fractures of the greater tuberosity of the hu merus with displacement fractures of the surgical neck of the humerus with displacement fractures of the olecrannon with separation of the small frag ment fractures of the head or neck of the radius with such displacement of the small proximal fragment as would without operation produce limitation of ronation and supination and possibly limitation of elbow flexion and extension fractures of the shaft of the radius with di placement toward the ulna separations of the epi ondyles of the humerus which are not held by the acutely flexed position and tho e occurring in cases in which the acutely flexed post tion is contra in licated certain elbow joint fractures in a lults irreducible fractures of the shaft of the femur at an level duplacements of the femoral con lyle fractures of the patella with di placement certain spiral or oblique fractures of the tibia and fibult fractures of the os calcis in whi h the line of fracture enters the astragalocalcaneal joint fractures about the ankle joint which are difficult to

hold and certain metacarpal and metatarsal frac-

In the third group those in which the advisability of operation is doubtful are fractures of the spine with immediate symptoms of a transverse lesson of the cord fractures of the humeral shaft above the middle and fractures of both bones of the forearm In conclusion Scudder states that it must always

be borne in mind that the proper use of skeletal traction upon the condyles of the femur the tibial crest or the malleoli or through the os calcis may diminish the necessity for operative treatment by direct incision as an initial method of choice "Aymory F. Sawa M.D."

Geist E S and Henry M O Dislocations and Simple Fractures of the Elbow Minnesota Mrd 1928 x1 500

The authors review 150 cases of fracture and dis location of the elbow seen in private practice. The ages of the patients were as follows

4g	Ar				
	N	P t	Y A.E.	•	Pri
o~ 5	30	20 00	31-40	1	8 00
-10	31	20 30	41-50	9	6 00
1-15	20	13 33	51-60	4	2 50
5-20	11	7 33	61 0	2	1 30
1 30	30	0 00	/I 80	1	0 60

In 110 of the cases the dislocation or fracture was due to a fall. In 72 the injury was direct and in 38 indirect. In 23 cases the cause was an automobile

Seven of the cases were seen on the dru injury was sustained 25 during the first week after the accident 36 during the second third or fourth weeks 5 after from one to two months 36 after from two months to one very to after from one year to five very 2 after from five to ten years 8 after from the to tent to tent years 8 after from the to twenty versa and a lafter twenty

The types of fractures and dislocations were as follows

Backwa ł	9	6 0
Ba kwar l with fra ture	2	
Internal lateral		3 4
Fate nal lateral	-	1 4
	1	0.7
Di location of head of radius	3	2 0
I ractu es		
I xternal con ivle	22	11.7
Internal con lyle		:
l sternal er condyle	*:	
Internal eps ondyle	7	4.7
Intercon h lad I fra tu e	4	27
Supracon Islar	5	3 3 18 0
	2	18 0
Diamon is lar	16	10 7
fra ture of head of radus	16	10 7
I ra ture of corony i i rove	2	
I racture of ole ranon		
Explaine fracture	**	. 3
	0	6 0

The treatment of each type is described. In the discussion of fractures of the olecranon process in which the lateral fibrous expansions of the tricens are torn emphasis is placed upon the importance of firm suturing of the fibrous expansions in apposition Immediately after this suturing the arm should be flexed to at least as degrees and the elbow but at rest in that position

The authors state that explosive fractures usually result from a direct injury such as the strik ing of the elbow on the present in a fall from a height All of the bones comprising the joint are shattered into many pieces. The prognosis is always serious. In 3 of the o cases reviewed open sur ours was attempted but the end results were not so good as those obtained in the cases treated con-Conservative treatment consisted in extension with the aid of a Balkan frame combined

with early active and pa sive motion ROBERT V FUNSTON M D

Roth P B Fracture of the Spine of the Tibia J Bone & Joint S rg 1928 x 509

Roth reviews the literature on fracture of the some of the tibia and reports five cases. He advises immediate operation and emphasizes that division of the anterior born of the lateral meniscus allows the exact replacement of the fragment in the top of the tibia far more satisfictorily than any other procedure

As a rule the nationt suffering from a fracture of the spine of the tibia gives a history of very severe injury followed by very rapid distention of the joint cavity of the knee There is marked limitation of movement especially of extension and the knee is semiflexed

Roth applies a tourniquet and splits the quadri ceps patella and ligamentum patella vertically. On complete flexion of the knee the vertical incision allows excellent exposure After the blood and blood clots have been swabbed from the joint the anterior born of the lateral meniscus is divided and the bony fragment is replaced in its original position. The knee is then completely extended the wound closed and plaster applied. After immobilization for one month active movement and massage are begun PAUL C. COLDYN U.D.

Caldwell G A A Portable Frame for the Suspen alon and Traction of Fractures of the Lover Extremity South W J 1928 xvi 419

For the suspension and traction of fractures of the lower extremity Caldwell uses a modified Thomas solint and a Bradford frame with cot springs instead of canvas and with an overhead frame of rupe at right angles from which the ex tension device is suspended on a troller. When an ordinary Thomas splint is used extension is ob-



Modified Thomas splint extension attachment and transfimon pan su prended on portable frame

tained by the use of a turnbuckle and spnn, bal ance When a Steinman pin is employed a special splint is used. The angle is adjustable and exten sion is obtained by turning the nuts of the sliding side bars. This apparatus is portable when set up and simplifies the after care of the patient W P BLOUNT MD

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Pearse H E Jr An Experimental Study of Arte rial Collateral Circulation Inn 5 rg 1928 1xxxviii 227

The increasing importance of surgery of the vascular system led the author to carra out expenments upon dogs to determine the rôle played by the main trunks and lateral branches of the blood vessels and by the vasa vasorum following operative proce dures Pearse calls attention to the fact that much attention has been paid to the collateral channels developing after the ligation of arteries to the technique of arterial suture and to the effect of liga tion upon the arterial wall but beyond such studies little has been done to determine the response of the vessels to surgical procedures Therefore further inquiry must be made regarding the natural response

of the organism to alterations in the circulatory bed In the author's investigations to determine the necessity of the main arterial channel the femoral artery was entirely excised from the inguinal ligament to its termination in the popliteal space Through a long incision on the inner surface of the leg the artery was isolated lifted from its bed and divided between ligatures first at its point of emer gence beneath the inguinal ligament. The lateral branches were dissected out and divide I about 1 in lateral to the parent trunk. The dissection was continued to include the popliteal artery tibial and peroneal arteries were also isolated drawn up as far as possible ligated and divided

In the six dogs upon which this experiment was performed there was no evidence of gangrene or functional disturbance. Two weeks after the operation the roentgenogram made after the injection of Hill s opaque mass showed an amazing increase in the vascular network of the limb deprived of its femoral artery Histological study of muscle removed showed that the vascular increase was due entirely to dilatation of ore existing vessels and not to the formation of new vessels. It was thus proved that the main vascular trunk 1 not essential for viability and function of an extremity

In the experiments to determine the importance of lateral branches as collateral channels after ligation of the main artery segments of the femoral artery were isolated by the use of silk ligatures Some segments had no branches while others had from one to four In the segments with one or more lateral branches the blood pressure rose rapidly Fourteen weeks after the operation the various seg ments were removed for examination. Isolated segments showed complete atrophy and those with one branch were greatly reduced in size. In the segments with two branches the main artery atrophied

between the ligatures and the branches while the part between the branches became smaller. It appeared that the arterial trunk became a part of a smaller arter, which then consisted of a branch in which the current was reversed the main artery between the branches and a branch in which the direction of flow was unchanged. A segment with three or four branches atrophied between the ligature and the first branch and then resumed its normal caliber

In the experiments to determine the role of the vasa vasorum in the formation of collateral channels after ligation it was found that if a 2 per cent aque ous solution of Prussian blue was injected into a branchless segment of artery the vasa vasorum would fill A z in segment of the carotid aftery was used Within twenty four hours after the ligation there was formed an amazing anastomosis of the vasa vasorum with the small arteries in the surround ing tissues by means of which the vasa vasorum on the distal side of the ligature became filled with the dve Later the vasa vasorum destroyed at the time of ligation regenerated and passed over the ligature It was thus proved that the vasa vasorum act as collateral circulatory channels after arterial ligation

MORRIS A SLOCK M M D

Girardier J de and Stricker P An Early Throm bosis of the Bifurcation of the Aorta portance of Surgical Exploration of the Bifur cation in Establishing the Differential Diagno sis in Certain Types of Obliterative Arteritis and Determining the Choice of Treatment (A propos d'une thrombo e précoce du carrefour aortique Importance de l'exploration chirurgicale de ce carrefour pour l'établissement d'un diagnostic duff rentiel dans certaines artérites oblitérantes et le choix d'une thérapeutique) Ret de chir Par 1028 vivu oz

Thrombotic or embolic obliteration of the aorta is seldom due to Buerger's disease and except in cases of aneurism seldom occurs before the fifty fifth year of age. The clinical picture varies with the location of the lesion the degree of vascular stenosis and the rapidity of development of the obstruction. The diagnosis is not difficult when the condition is estab lished suddenly Under such circumstances severe pain on one or both limbs coldness and blueness of the affected parts often associated with parasthesia. and anasthesia the absence of pulsation in the neripheral arteries in the part and the rapid establish ment of gangrene (except in a few cases in vounger persons) with a fatal terminat on make a definite clinical picture When the condition develops more slowly the diagnosis is difficult and may not be made for some time if at all although suggestive symp toms due to involvement of the periarterial sympa thetics (Leriche) might be expected Several cases 68

The treatment of each type is described. In the discussion of fractures of the olecranon process in which the lateral fibrous expansions of the triceps are torn emphasis a placed upon the importance of firm suturing of the fibrous expansions in apposition Immediately after this suturing the arm should be flexed to at least 75 degrees and the elbow put at rest in that position

The authors state that explosive fractures usually result from a direct injury such as the strik ing of the elbow on the payement in a fall from a height. All of the bones comprising the joint are shattered into many pieces The prognosis is always serious. In 3 of the o cases reviewed open sur gery was attempted but the end results were not so good as those obtained in the cases treated con servatively Conservative treatment consisted in extension with the aid of a Balkan frame combined with early active and passive motion

POR RT V LINSTON M D

Roth P B Fracture of the Spine of the Tibia J Bone & Joint Su g 1928 x 500

Roth reviews the literature on fracture of the spine of the tibia and reports five cases. He advises immediate operation and emphasizes that division of the anterior horn of the lateral menucus allows the exact replacement of the fragment in the top of the tibia far more satisfactorily than any other procedure

As a rule the patient suffering from a fracture of the spine of the tibia gives a history of very severe injury followed by very rapid distention of the joint cavity of the knee There is marked limitation of movement especially of extension and the knee is semiflexed

Roth applies a tourniquet and splits the quadri ceps patella and ligamentum patella vertically. On complete flexion of the knee the vertical incision allows excellent exposure After the blood and blood clots have been swabbed from the joint the anterior horn of the lateral meniscus is divided and the bony fragment is replaced in its original position. The knee is then completely extended the wound closed and plaster applied. After immobilization for one month active movement and massage are begun PAUL C COLONA MD

Caldwell G A A Portable Frame for the Suspen sion and Traction of Fractures of the Lower Fatremity So th M J 1928 xm 438

For the suspension and traction of fractures of the lower extremity Caldwell uses a modified Thomas splint and a Bradford frame with cot springs instead of canvas and with an overhead frame of pipe at right angles from which the extension device is suspended on a troller. When an ordinary Thomas splint is used extension is ob-



Modified Thomas plint extens; n attachment and transfixion pin su pended on portabl frame

tained by the use of a turnbuckle and spring bal ance When a Steinman pin is employed a special splint is used. The angle is adjustable and exten sion is obtained by turning the nuts of the sliding side bars. This apparatus is portable when set up and simplifies the after care of the patient

W P BLOUWS MD

size of a bean nodules the size of a pigeon's egg in the calf muscles and a torpid subungual suppuration. When the subungual suppuration is mistaken for an ingrowing toe nail and operated on the results

are disastrous
In a well developed case of gangrene of the great
toe the pulsation of the dorsvius pedis and the pos
terior tibul arteries is reduced or abolished and the
sphi gmomanometer usually reveals normal pulsa
tions no higher than Hunters canal When the
limb is elevated it becomes beckerine and when it is
allowed to hang dependent it becomes bright red

(Buerger's ervthromela)
The diagnosis of thrombo anguits obliterans is difficult. Syphilis and diabetes must be eliminated Microscopic examination of the arteries is of no value unless it is done in the early stages of the disease. Later the putture is always the same.

The author concludes that in most of his cases the condition was Buergers aliesase. He finds the original description of Buerger exact in every detail The condition begins as an acute thrombo anguits. The wall of the vessel becomes infiltrated by foot of leucocytes and grant cells. The lumen is quickly obliterated by a thrombus and as the acute stage passes the vessel is converted into a fibrous cord. The disease evolves throughly and greenwish the condition is confined largely to the Jiws of Russia and I oland but the Chinese and Japanese seem to be quite frequently affected by it and it has been known.

to occur also in other races Juvanile arteriosclerosis endarteritis obliterans of old texts is less frequent. It licks the acute stage of Buerger's disease and is accompanied by atheroma of the abdominal aorta. Its etology is as ob cure as

that of senule arterus/cleross
The progno so Buerger s disease is extremely de
ceiving and variable. Here may be remissions of
months or veas: In some cases the progress of the
condition is more rapid but occurs by steps so that in
cases of guigeres some surgeons have been led to ad
the high amputation from the beginning. The
ten but of the prognous control of the condition of

Various medical treatments have been adsocated. The viscosity of the blood may be rejuced by in travenous injections of saline solution or the administration of 8 to to blaver of saline solution by duodenal tube. The use of intrivenous injections of saline solution by duodenal tube. The use of intrivenous injections of saline solution during a period of four vear at the Mt. Sinai Hospital New York considerably reduced the number of amputations.

Ambard and Vaquez advise injections of insulin to combat the suppose I hypersecretion of the supra

renals Sodium nitrite and acetyl choline have been used because of the vasodilation produced. Hyper tonic saline solution sodium nitrate and acetyl choline appear to be of most value.

Of the physical agents diathermy seems the most

effective
Surgical measures such as ligation of the femoral
vein ligation of the external iliac vein and anasto
mous of the vein and artery have been used but the

results of most of them have been poor or transtory.
Lewis proposed ligation of the femoral arter, un mediately below the deep femoral to prepare the collaterals against thrombosis of the popiliteal artery. In four cases in which this was done the immediate re

sults were good

None of these operations gives permanent relief
The same may be said of pernarterial sympathectomy
but of all surgical procedures thus is best as it com
bats the arterial spasm often greatly relieves the
pain and is simple and harmless

Resection of the lumbar sympathetic is a difficult dangerous and shocking operation which has no ad vantage over periarterial sympathectomy Super

renalectomy has little or nothing to recommend it. The author defends the conservative treatment of gangrene. He determines the level of amputation by the Moschcowitz test. The leg is elevated and an Esmarch band applied for ten minutes. The height of the amputation is determined by the extent of the subsequent active by neremine.

ALBERT F DEGROAT M D

BLOOD TRANSFUSION

Matthews II B and Mazzola V P Observations on the Biochemical Changes in the Blood Following Radium Therapy in J Ob t & Gyn c 1928 xxx 97

The occurrence of nausea and vomiting and other signs of discomfort following radium treatment has been ascribed to intoxication disturbances of metabolism acidosis inhalation enzyme changes and nephritis Matthews and Mazzola studied a series of 100 cases with special reference to biochemical bloo i changes after radium irradiation. In 41 per cent there was a mil I reaction which might have been attributed in part at least to the pre of erative atro pine or morphine or the an esthetic Following radium treatment of both benign and malignant tumors the blood area showed an increase but no definite rela tionship could be established between this increase and the reaction. The carbon dioxide combining power of the blood was not affected by radium irra diation and no evidence of renal impairment could be adduced E L CORNELL M D

are cited from the literature in which the condition was discovered only at autopsy or the nationt sur vived for a number of months or years

The authors report a case from the clinic of I eriche in which despite careful observation the true nature of the condition was long unsuspected. The patient a Spanish planter forty five years of age with a history of syphilis in youth had suffered for five vears from intermittent claudication and pain over both kidney regions. The pain in the legs was much more severe in the right leg than the left and was of a constricting nature. It began in the toes and radiated toward the dorsum of the foot. Sleen was almost ampossible

Examination revealed marked venous dilatation of the legs cyano i of the feet redness of the toes and or tema of the right fourth toe. In the hori zontal position the extremities became very pale With the exception of a slight pul ation of the left femoral artery no arterial pulse could be felt Pachon s oscillometer showed no movements even after the limbs had been immersed in warm water The blood and urmary findings were normal

Treatment for Buerger's di ease (insulin normal salt solution and hypertonic salt solution intra venously) failed to rive relief. Because of the progressive prin in the toes an I also to some extent on account of the insistence of the patient Leriche undertook a revision of the femoral vessels and periarterial sympathectomy After removal of the adventiting the arteries contracted but no pulsation was noted and the ti sue about the ves els did not Heed The oscillometer showed some maxements

in the left leg but none in the right The shight benefit derived from the operation led Leriche to remove the left suprarenal gland which showed dennite hi tological evidence of hyperac tivity I ollowing this operation however the prins and di coloration were more intense and within forty eight hours the condition became alarming The patient was very much agitate I the gains failed to respond even to morphine the cyano is was marked the pulse soft and tam! and the urine diminished in quantity. I enche thought of aurtic thrombo 1 but coul I not differentiate it from acute hypotension with capillary stasi Accor lingly ouabain and insulin were admini tered and the limbs were mi siged Slight improvement resulted Adren ha was then given This produce I a condition resembling shock (lucose heat stimulants and massage were of only transitivey benefit and the patient died Autopsy revealed an old obliteration of the femorals and a recent clot in the lower aorta

extending down to the bifurcation Leriche believes that in this case the removal of the suprarenal gland was absolutely ontra indicate ! While this proce lure is often of value in Buerger s di eise it is harmful in an arteriosclerotic thrombosis of the type under di cussion. The differential diagnosis of the causes of arterial obliteration is therefore of importance. As in the case reported the age of the patient may not exclude Buerger 9 disease. Tests of the viscosity of the blood may give some clue it appears probable that in thromboangutis obliterans there is an increase in the vis coats. Heatz has noted besides the usual physical and instrumental findings a marked palpable en largement of the enigastric aorta associated with gardle pains Leriche believes that in doubtful cases exploration of the aorta is justifiable

MICHARL L. MASON M.D.

Lelhovici R Remarks on the Diagnosis and Treatment of Gangrene Due to Obliterating Atteritis in the Adult (Remarques sorte diagnostic et le trait ment des gangré es par arténtes oblite rantes de l'adulte) J de ch 1028 XXXI 154

Serious attention has been paid to presentle gas grene and obliterating afteritis by French physicians only in the last few years. In the many articles appearing in the recent literature are found two points of view Some of those writing on the subject see in obliterating thrombo angulus a new morbid entity due to a specific organi m spreading insidiously throughout the world Others leny even the individ

uality of Buerger's disease I esboyics reports the results of a study of sixteen

cases of obliterating arteritis in young a fults He states that gangrene of the lower extremities is far from rure an I that the cases ob erved in the prekangrenous stage will become still less rare as physitrans learn to recognize the early stages of arteral obliteration

Occ 1 tonally the gangrene appears suddenly For several days there are violent pain usually in the great toe As in sende gangrene the pain is mo t severe at night. In the course of a few days the toe lecomes vanotic and cold and soon thereafter

mummification appears I requently the gangrene follows months or years of cramps in the plant it surface of the foot and slug gish trophic ulters of the toes

In all cases the gangrene develops very sluggishly an I for weeks no line of demarcation appears In the meantime the pain increases in severity. The pa tient i unable to walk and at night suffers violent Darotysms

Among the pro-fromal samptoms intermittent Claude atton a very con tant As the sign is variable in the same patient it i e i lently due in large part to arterial spa m

Cutancous ir ulaters phenomena are usualfs striking They ma consi t in an intense hyperamia when the patient 1 upright (the laquez sign) or pal brand col line of the extr mits after he has walked a short distance

Sometimes the arterial obliteration is latent and the di ease i manifested by changes in the super fi ial veins a segmentary acute thrombophlebitis which heal with obliteration of the vessel Some times a phlegmatic alba dolens re ults from involvement of both deep and superficial veins

Other phenomena are painful purpure spots on the dorsum of the foot subcutaneous nodules the to the patient Braun's rule of awaiting the in duction of anisthesia before making the incision is ignored. When the tissues are incised the greater part of the fluid escapes but anisthesia is already present. Without further delay the author then continues alternately using the scalpel and the synapse.

For an operation on the kidnes the solution is injected subcutaneously along the entire length of the skin wheal until a raised infiltration results the needle being held vertically at right angles to the skin. Then without delay the incision is made down to the aponeurous. The injection of the muscles is also done vertically. With this technique it is possible to inject deeply a sufficient quantity of solution of the muscles until they are structured the muscles until they are sufficient quantity of solution of the incision is made without delay.

The next step in the operative technique is the pushing backward of the fascia trenalis propria which is now exposed. Then the interfascial space is in jected through the posterior fold of the renal fascia with the use of a 10 cm needle. The needle is in serted progressicyl higher toward the diaphragm until it reaches the superior pole of the kidney. By this technique the entire space between the anterior and posterior fascial sheets is filled with solution and posterior fascial sheets is filled with solution several synapeliul of solution are impered through the posterior layer of the aponeurosis in the lower part of the space.

The fascia renalis propria is never opened until it is certain that the kidney as well as its capsule are floating in the solution. When the renal capsule is incised the excess of solution active the wound After the excess of solution and the blood have been sponged out the kidney is dissected from its capsule. This stage of the operation is of the greatest importance in determining the further success of the another. The proper execution of the method sources perfect anosthesis in a large percentage of cases If this stage of the technique is not carefully timed (too raydu opening of the posterior sheet) all pressous work will have been wasted and the anarsthesis will be poor:

anæstnesia will be poor

If the patient complains of severe pain during the
dissection of the fatty capsule or the mobilization
of the kidney into the incision an injection of the
anæsthetic is made through the fatty capsule to the
hills

The entire technique usually requires from 300 to 600 ccm of ¹² per cent novocan containing 4 drops of adrenalin per 100 ccm. The instruments used are a 1 ccm syringe with the usual need les and a 10 ccm syringe with needles 50 and too mm long.

During the last three years the author has operated upon sixty one patients with the technique described. The types of operation were as follows (1) fifteen nephropeus with simultaneous appen dectiom; (2) eight pyelotomes for renal calculus (3) seventeen nephrectomies for neoplasms pyelo nephrosis or infectious nephrints and (4) one capsular nephropexy with associated rectococcygopexy for prolapse of the rectum.

There was one death in this group of cases that of a woman sixty years of age with neglected pyonephrosis In this case the inferior vena cava was injured

Light ether anaesthesia (50 per cent ether) was necessary once in the removal of a kidney neoplasm a large hyperhephroma in the case of a stout power ful male. As a rule there is no postoperative in Courcation.

SAMUEL I LOCISON M.D.

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Harris R I and Stoddart W O A Simple Appa ratus for the Continuous Intravenous Admin Istration of Physiological Silt Solution Cana diam M 141 J 1918 xxx 346

In the technique for the intravenous administration of physiological salt solution described by the authors more than the usual care for asepsis is necessity as the apparatus may be in use for several days. The receptacle for the fluir is kept covered with a gause and cotton filter. When it is empty it is replaced by a filler lountained.

A small vein on the docum of the hall or foot is exposed under local anasthesis and a No 17 page gol incedle inserted and tred in with catgur. The wound and needle are covered with steple gatter made fast with adhesive tape. The apparatus is a raranged so that the solution drips through a glace capsule as in the Murphy drip at the rate of so drips to the coulder continue to the solution of the s

Glucove solutions are not used by this method as they give rise to thrombosis of the vein. Clotting in the needle causes very little trouble in the small veins. Not more than 35 cern of fluid should be administered per pound of weight in twents four

The method described was devised to meet the needs of certain surgical conditions such as the toxicima of intestinal obstruction and burns but has been found of value in many medical conditions Geor E & CHILET WID

ANÆSTHESIA

Hadfield C F Shipway F E Dai; A Thomas L K and Others Discussion on Late Ether Convulsions Pr c Roy So Med Lond 1928 xt 1600

Happeed to the a number of cases in which con value a state's occurred during ether anasthesis. Some of the patients died either on the table or subsequently in the warf. If estates that during the convoid ions the action of the cardiac and respiratory centers dress not seem to be affected primarily in the anasthetic is discontinued the movements maintained in the cases cited were adjuncted in a stimpt to determine the cause but nothing definite was found. If addied reaches the following conclusions

1 Some persons posess an unexplained tendency to develop convul ions under ether anxisthesia 2. In most if not all such persons one or more accessory factors may be necessary for the development of these convulsions 3 Such factors may include (a) heat (b) sep-s or other toxumia (c) impurities in the ether (d) youth

4 We know of no treatment except the with drawal of the ether. The administration of oxygen possibly combined with carbon dioxide may be of value. Chloroform should be avoided.

5 We cannot at present explain the absence of record of such cases previous to about 1916

DAIA cited the case of a natient thirty years of age who was subjected to partial gastrection by the Lither vaporized with oxygen was given through a Shipway inhier. Convulsions began after immittes but were immediately controlled by the administration of carbon dour in oxygen administration of carbon dour in oxygen the presence of a certaillethed and occounters.

Thomas states that in his opinion the symptoms are the result of over etherization

MENNELL suggests that over on genization or the formation of impurities in the other from the use of on gen may be a contributory cause

JOHN H GARLOCK MD

Wischnewsky A W My Method of Infiltration Anæsthesia for Kidney Surgery (Mene Method der Infiltration annesthesie bei Nertop a touen) Ze Italil f Chir 1928 Mr 9

The author states that practically should be the first consideration in kindey surger, under and thesis induced by the infiltration method. As each consumer a aniest of methods of block anrasthesia (Lawen kapps Brain Fis steer) were suggested but when the results obtained with block anrasthesia were reported a definite and equacy in the technique was e identification causes the block anresthesia were reported of the surgestion of the surges

As an advocate of the infiltration method the author has previously reported modifications of the technique which have been found of value. It is article hed cuses only the induction of anesthom for the flow surgery. But the induction of anesthom for the flow surgery flow in the induction of anesthom for the flow surgery flow in the induction of a surgery flow in the induction of the induction of the induction of the induction of the induction anesthom as u ed successfully. He states that he suffer work was based upon mutation but that he has work was based upon unforted that the has been also in the induction of the induction

Major surgery with infiltration technique car be executed successfully only if the surgeon is not limited in the amount of solution that can be used By injecting the various layers separately the author makes a stretched infiltrate with a quantity of solution which is effective without being harmful.

dose Distance and time are subject to great varia tion in the treatment of different lesions. In gen eral the shorter the distance the greater the econ omy of radiation

The 4 gm pack used by the author has a lead wall to cm in thickness immediately surrounding the radium. The radium is distributed over a circle 7 5 cm in diameter. The skin area is limited by the use of a beam 10 cm in diameter. This circular cross section of the beam seems suitable for many deep tumors and yet is not too large to use in cross firing Theoretically a square or rectangular cross section beam would be better for widespread irradia

tion but practically it is not The radium in the pack is placed in a recess 6 cm deep the minimal distance from the skin being 6 cm The time required to deliver the erythema dose at 6 cm with this 4 gm pack is three hours about the average length of treatment to the average patient

The radium is distributed over a circular surface area of 44 sq cm with a diameter of 7 5 cm. The radium 1 distributed in forty tubes each of which contains 100 mgm of sulphate and has a wall thick ness of 0 as mm of platinum except the cap which is o 5 mm thick. More tubes per area are placed about the periphery than centrally. The tubes are held upright in a bakelite disk. The radium is mounted in a revolving lead cylinder 15 cm in diam eter which can be revolved inside a larger outside lead cylinder in such a way that in one position the distance from the radium to the skin is 6 cm and in another is 10 cm. Also a position can be employed which gives complete protection during adjustments and preparation of the patient. As the external opening of the recess containing the radium is 10 cm in diameter, the typer of the 6 cm, recess is greater than that of the 10-cm recess. The whole pack weighing 310 lb is housed in brass and mounted on a steel frame with an electrically operated carriage which permits free movement of the heavy apparatus and adjustment as desired. Safety devices are at

tached. Two treatment rooms are maintained in one of which a patient is prepared while in the other a patient is being treated. After a treatment has been completed the pack is transferred to the other room through an aperture in the wall. Three min

utes are required for the transfer The article contains diagrams of the treatment rooms showing the location of lead insets to absorb secondary radiation. It contains also reproductions of films showing exposure to the pack with the use of the 6 and 10 cm recesses respectively at a distance of 10 cm in air and with a paraffin phantom to illustrate scattered radiation such as occurs in the

human body The minimal screen used is 0 35 mm of platinum and 15 mm of brass. This filter intercepts the beta

rays and some of the soft gamma rays A diagram shows the radiations in a water phan

tom as determined by ionization measurement. In a chart are given the threshold grythema doses in mil ligram hours at various distances and the relative depth doses at different depths. These determina tions were made in a water phantom by means of a small jonization chamber

The author states that whenever the geometrical and cylindric conditions of the case permit it is more economical to deliver the 10-cm depth dosage by three crossfire irradiations than by one exposure However the radiations reaching the 10 cm depth are not identical by the two methods

In practice a cross section tracing is made of the area to be treated and various arrangements are tested by means of the charts to determine the proper distances and the number of fields. The combined doses received by different parts of the tumor are recorded

In conclusion Failla says that the described pack is perhaps unique in the large thickness of protective lead the device for turning off the radiations and the device for adjusting the heavy apparatus

A JAME LARKIN M D

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Packard C A Comparison of the Quantitative Biological Effects of Camma and X Rays J Cancer Research 1928 xtt 60

The purpose of the experiment reported in this article was to compare the lethal effect of grimming anys from a measured quantity of radium emanation with that produced by \(\nabla ray\) doses of known intensity.

The eggs of the common fruit fit or drosophila had been previously used but he author as a straidard of measurement for the intensity of the action of the Yarv The proportion of eggs killed depends upon the intensity of the X-ray baim and the length of exposure the was length is not a factor. When the intensity is lowered the death rate is proportion acts, less regirdless of the wase length. The intensity of the X-ray dove can be estimated with the control of the X-ray dove can be estimated with harching and the duration of the expr unservices when the control of the co

outplus of an Yay materiale. When a curve is plotted showing the percentage of a hatch after a certain length of exposure to box against Yays from radium mid the hay a confidence of a distinguishment of the properties of the curve of a curve of the curve of a curve

Certain critics ms of the method of measuring radiation intensity brought forward by Zuppinger

the curves obtained by expressing tumor cells to

these two radiations all o corresponded quite cheeks it was assumed in these experiments that the was a length is not a determining factor in the biological effect produced that is that long was are not biologically more active than short ones. This assumption though not set fully proved is held as reasonable since biological effect and ioniza tion are parallel within such is wife range of wave length that they are probably parallel within the short lengths not yet tested

HARRY C SALTESTEIN M D

RADIUM

Pailla G Design of a Well Protected Radium
Pack Am J R c tgenol 1928 1 8

The author applies the term pack to applicators from all points of which the skin receives radiation and not to beams of rays limited by lead screens. The relative dif eth dose delivered by a pack may be expressed in percentage of the skin dose. The

relative depth dose at any given point increase with the filtration the area of the pack and the datance between the radio-active source and the skin. Other factors being equal the relative depth dose decreases with the depth

Only tumors having a radiosensitivity greater than that of the skin can be treated with packs unless

crossfiring is done

Theoretically it should be possible to defur to deep tumors the dose necessary by varyin the fix tors of fiftration area of source and distance Practically the radio ensitivity of tumors is not known and the factors of fiftration area and distance my be so great that adequate irradiation is impossible with the amount of radium available.

Orlinarily 1 mm of brass or its equilated: a considered sudjeent filtration of Greater filtration in crasses the time of exposure unnecessarily. Its net agreed that to 3 mm of feed or 1 to 2 mm of feed and 1 mm admit radiation having a selective action of cancer. Some substance aboving the secondary rays from the brass should be interposed between the filter and the skin.

In general the larger the source area the greater the relative depth doe that is delivered that's when the source area is large the relative depth doage does not decrease so rapidly as when the source area is smaller.

The distribution of the radium units over the source area 1 such that the unit per area metra is from the center peripherally. In this way it is possible to obtain a more even di tribution of the radiution in planes parallel with the plane of the applicator.

The most important factor to be considered as the list time. In general, the relative depth doe in creases with the distince. The increase in the relative depth dise; most rapid for a point source and becomes less marked as the radiating surface in

The filtration is fixed at 1 mm of brass but the sure area in the di tance are determined by economic and buologi if fixtors. One gram of radius it at dit an e of 10 cm over 10 sq. cm. I area produces a thre holl erithems in twenty hours. I list di tance were 15 cm. fort is he hearts would be difficult of the effect. In the decident of the quired for this effect in the decident of the relative ments of long and short application the biological effects of the two types of exposure and the personal equation of the radiologist all have

In general the distance is so adjusted that the skin dose may be administer i by the amount of radium variable in the time allotted \lower relative depth dose with a full skin dose i of greater value than a higher relative depth dose with a fraction of a skin

Cfra (S ID atv a

first was the case of a woman who entered the hos putal with celampsia and died a few hours later Microscopic examination showed mycelial filaments in the kidneys almost exclusively in the somewhat thickened walls of the vessels. There was no inflaminatory reaction in either of the case of the faminatory reaction in either one to convict and the control of the conviction of the host because the had been perfectly tolerated and may have been present for a long time.

The second case was that of a woman who was delivered normalls but was re admitted to the hos pital ten days later in a condition of coma and cyaness with signs of congestion of the lungs and a temperature of 40.7 degrees C and died a few hours later. Myechal filaments were found in the blood vessels of the uterus but had not caused any inflammatory reaction in that organ. In the capil laires of the lungs there was an intense proliferation of mycelia. The fungs had apparently not caused inflammation of the alweoli but the circulatory dis turbance produced by them had led to the acute ordem of the lung which was the cause of the patient's death.

Three other cases are cited briefly. In the first branched mycelial filaments were found in an in flamed appendix in the second they were found in a large tumor of the thigh which had been diag nosed as a sarcoma and in the third they were found in an osteosarcoma of the lower third of the termir.

The author believes that the latent form represented by the first case is common. He states that in general these mycoses are only slightly virulent various forms of the fungi are found—long and short mycella and spores. The lessons they cause

range from inflammation to chronic progressive in flammatory new growths

Armsey G. Morgan, M.D.

AUDRES O MICKGAN SI D

HOSPITALS MEDICAL EDUCATION AND HISTORY ker G The Early Development of Hospitals

Parker G The Early Development of Hospital (Before 1348) Brit J Sirg 1928 xvi 39

Parker traces the early development of hospitals to the time of the Black Death. The earliest hospitals were founded in the sixth century s.c. in places far apart both in the West and the East Among the early founders were such famous men as Kasser Karl the Great Haroun Al Raschid and the English king Arthelstan.

Buddhist hospitals sprang up after the death of Gautama in 543 BC. In the Buddhist period of about 600 AD able surgeons were practicing laparotomy intestinal suture and rhinoplasty and numerous hospitals were built by victorious rulers monasteries, and individuals.

Of the early Zoroastrian hospitals little is known Their establishment began at about 500 A D and in the main they resembled the Buddhist institu

tions

In the Western World hospitals had two sources the Æsculapan cult and a provision for suck citatens made by the Greeks who were intent on forming a model city state and had a large bod of able medical men at their command. The Temples of Asilepios established at about 500 Bc claimed many cures and provided baths massage bleeding operations and drugs. Fees were charged to the well to do. In addition to these temples there were numerous other healing shinnes great numbers of private secular doctors and also even as early as 500 BC. a highly paid and well trained public medical service.

In the Roman Empire there were great and self-sequence of the complete medical state of the complete of th

In the Moslem world hospitals and medicine made extraordinary progress because of the advanced civilization and wealth of the early Caliphs The mapparation leading to the advance of medicine and the establishment of hospitals came from two sources (i) the neighboring Byzantines and (2) the great school of Gondishapor of Greek Persian and Indian origin

After the year 1100 European hospitals began to increase in number Numerous foundations were established by individuals and by bishops canons and monastic orders. Soon however the practice of medicine by churchmen was greatly reduced as it was found to interfere with corporation with the order to the soppitals was then taken over largely by lay societies organized for the purpose

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Heiman J Implantation of Rat Carcinoma and Sarcoma within Benign Fibro Adenoma J Cancer Research 1928 20 73

Mixtures of different tumors such as sarcoma and carcinoma for example have been transplanted into mice by different investigators. As a rule the neo plasms grew together, but each strain could be senarated by growing it in animals susceptible to only one type of tumor. When tumors varying in via bility and proliferative capacity were mixed and transplanted the most energetic type overgrew the The result was not an others in a few generations amalgamation of tumor strains into a new type but rather a mixture of two types of tumors which retained their morphological characteristics. The same phenomenon has been observed in the metas tasis of complex tumors occurring in man such as those of the testicle. The highly pecualized tissues rarely appear in the secondary growth Instead sarcomatous chondromatous or carcinomatous ele

ments dominate in the metastases. In the author a study, neophysms of a lightly majorant variety were inconsisted into the centre of a study reconjugate. The beings tumors abovely growing beings tumor. The beings tumors because of rats. These were soft bolusted growths batologically conforming to the human type of fibro adenoma of the breast with a densely fibrous storma interspersed with regularly growing or distorted or compressed glands areasped in bobules to the storma interspersed with regularly growing or distorted or compressed glands areasped in bobules.

fumore

unions. When caccinoma cells from the very active Flex. When caccinoma were injected into the depths of a few first and the caccinoma were injected into the depths of visible affecting the health of the animal or appreciably modifying the development of the beings tumor. There was no change in the structural characteristics of either the beings tumor or the carcinoma even though they were growing in close provimity.

The carcinoma cell seemed to remain in the center of the being it mior. Their growth was frequent surrounded by dease connective tissue and his almost in in one instance cyst formation devolped Probably the poor vascularization of the beinging time of the surrounding the contract of the poor time in the contract of the instance of the poor vascularization of the beinging time of the carcinoma. In one experiment in which the needle was accidentally forced beyond the tunned the carcinoma grew beyond the poles of the beinging time of an experiment in the poles of the being time of an experiment of the carcinoma grew beyond the poles of the being time of an experiment of the carcinoma grew beyond the poles of the being time of an experiment of the carcinoma grew beyond the poles of the being time of an experiment of the carcinoma grew beyond the poles of the being time of the carcinoma grew beyond the poles of the being time of the carcinoma grew beyond the poles of the being time of the carcinoma grew beyond the poles of the being time of the carcinoma grew beyond the poles of the being time of the carcinoma grew beyond the poles of the being time of the carcinoma grew beyond the poles of the being time of the carcinoma grew beyond the poles of the being time of the poles of the being

When a spindle cell surcoma was injected into this benign tumor the surcoma infiltrated the benign tu mor and extended outside and around it and Litt found a path through the abdominal and chest will into the mesentery and mediastinum

The carcinomata continued to remain encysted in the center of the benign tumor while the sarcomata seemed to be able to grow along the track of the needle infiltrating the fibrous tissue and ultimately to escape into the tissues of the host. The bener tumor seemed to play a wholly neutral part. When the carcinoma cells which had been implanted into the benign tumor were later transplanted into another animal there was no change in their biology and they grew as rapidly as control tumors which had not been imprisoned in the connective tissues of a benign neoplasm. This observation is cited to further evidence against the theory that an organism is responsible for the growth of malignant tumors since it might be expected that if an organism were present it would stimulate the benign tumor to be

come malagnant. The author suggests that the conditions this art ficially produced resemble the chinical curessees after radiation in which tissue of the even as one moreospec examination to contain neoplastic cells which are evidently value but remain quiescent because on account of the closure of the vessels their nutrinos is mustificated for prodiferation. When this abstract influence of a dense fibrous tissue is disturbed an influence of a dense fibrous tissue is disturbed an extraction of the control of th

be permitted

Clinical cases also show a difference between the behavior of cartinoma cells and sarromata similar to that noted in this experiment namely the difficulty of influencing the spindle cell types of sarroma by radiation as compared with cartinoma despite it treme scarring of the ussues about the sarroma Harry C Sartzniry V D

.

GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

Durante G Histological Forms of Internal Hu man Mycosea (Form s h stologiques des mycosa nternes huma nes) Gynecolog 1928 xxvu 311

With the exception of aspergillosi and actino my cosis diseases due to fungi were for a long time considered rare in man but it has been found that my cotic infection in the human being ranges from absolute saprophytism to the most acute septi

The author has recently seen two cases in pres nant women that represented these extremes The [6]

Tear sac surgery J J CORBLET New Ingland J Med 1029 CYCLY 450

Lartial staphyloma of the c rnea R I Stones Brit

M J 1928 n 488
The reaction of the lymph vessels of the bulbar con junctiva in tuberculous infection J Lijo Pavla Kev Soc de med interna y Soc de tissol 1928 iv 253 Parinaud conjunctivitis R \ Tomassene \text{im J}

Ophth 1928 XI 35 7 I Cuttate chorioditis P SATANOWSKY Semana med

1028 XXXV 137

A case of humangioma of the choroil S B Mirkow Arch Ophth 1028 Ivn 484

I new operative procedure in cases of shallow anterior chamber W I Swerr Am J Ophth 1928 xt 3 s /17 Cloquet's canal visible in the living with observations of hemorrhage into Cloquet's canal O BARKAN 1rch

Ophth 1928 lvii 502

Periodic ophthalmia in soliped and its relation to uveitis in man I C ROSENOW and I P I EWIS J Am M Ass 1028 XCI 621 Bacterial antigen in uvertis R L Mason Am J

Ophth 1928 ti 3 s o II ht and left indocyclitis J T CUNNIGHAM and II NAME Proc Roy Soc Med Lond 1028 XXI 1806 An arborescent cataract I D M CARDELL Proc Roy

Soc Med Lond 1928 xvi 1800 The proteins of the lens and their chemical changes in \rch

the pathogenesis of senile cataract I 5 Tassata Ophth 1028 Ivn 361 Chemical analyses of blood in patients having senile

cataract C S O BRIEN and V C MEYERS Arch Int Med 1928 xlu 3 6 ens protein—the isolation of a third (gamma) crystallin I L Burky and 1 C Woods Arch Onhth 1028 lyn

The progress attained the last thirty years in the treat ment of cataract M MAROLEZ Med Ibera 1028 xH 20 Some analytical observation on the itreous humor from normal and glaucomatous eyes C NEWCOMB and R F

WRIGHT Arch Ophth 10 8 Ivn 480 The retinal circulation, the value of its study in neuro-

p ychiatry Claude I AMACHE and DUBAR I resse med 201 1977 8101 15 6

I mboli m or thrombosi of the central retural vessels?

A CANTERO Canadian M Ass J 1928 vix 344 A case of retinitis proliferans without history LENING I roc Roy Soc Med Lond 1928 XXI 1805 Di ciform macular degeneration B CUSHMAN Am I

Othth 19 5 x1 3 8 720 case of gliosarcoma of the retina in a child of three

C. HUDSON Lancet 1928 ccxv 598 Juvenile atrophy of the optic nerve H D LAMB J
Mi soun State M As xxv 415
Merpes zoster ophthalmi us C D Townes Kentucky

M J 1928 XTV1 4 0 Neurofibromatosis or plexiform neuroma F JULER

Proc Roy Soc Med Lond 1928 XXI 1806

Ear

The correction of outstanding ears W Koscii Deutsche m I Wehnscht, 1918 1 560
The so-called congenital fistula of the ear SEIFERT Zentralbl f Chir 1918 h 914 Some chinical observations on the eustachian tube

D Roy Ann Otol Rhinol and Laryngol 1929 xxxvii

I new instrument for catheterizing the eustachian tube L. L. GALE Arch Otolaryngol 1928 vi 33?

Physical therapeutic methods in otolaryng logy 1 I HOLLLYPER and M H COTTLE Iffinois M J 1928 liv

Med J Au tralia 1928 11 289

Contribution to the study of the hemostatic action of the \ray in otorhinolaryngology G BARTHELMÉ Presse med Par 1928 exxvi 1082 Late radium necrosis of bone and cartilage L CASTER (

Rev de e pecialidades 1928 iii 70

Brief consideration upon some case of hypo-acusia I SAMENGO and I L LERECART Rev de especialidades 19 8 m 61

The madequacy of treatment of chronic deafness G B Mc ALLIPPE Med J & Rec 1928 CXXVIII 205

Certain aspects of tinnitu particularly treatment I II JONE and V O KNUDSEN Laryngoscope 1928 vervin 597

Local infection in the ear nose and throat and renal disease M M Swace Laryngoscope 1928 vxxviii

Report of an ear condition in a cale of Raynauls disea e G B DOWLING Proc Roy Soc Med Lond 1028 XXI 1 66

Acute non suppurati e otitis media and sequelæ a re view of 100 cases C % FULLER \un Otol Rhinol & Laryngol 1028 vvvu 1007 Acute and chronic otitis media an I sinus thrombo i

S J KOPITZKY \rch Otolaryngol 1928 viii 334 In unusual mastoid complication J A I ISHER Lary n goscope 1928 txtviii 618

Nose and Sinuses

Nasal respiratory insufficiency G Works Arch in ternat de laryngol 1928 xxxiv 641 Recurring head colds T R GAINES J South Carolina

M 1 4 1028 XTIV 208 Some observations on nasopharyngeal epidemics in ublic schools J 1 GLOVER From Roy Soc Med

Lond 1928 xx: 1503 Considerations upon the etiology of atrophic rhinitis J O Day Rev med de Chile 1023 lvi, 677

Rhinoscleroma 1 \ I IGI and I THOMPSON I \m M Ass 1928 xc1 63

Ra hum treatment of has pharyngeal fibromata P S MERTINS South M J 1928 XX1 711 The end septal route H ZUBIZARRETA Semana med 1925 4421 1

Telangiectasis of the nasal septum treated with radium I C SCAL Arch Otolaryngol 1028 vit 312

Spindle celled sarcoma of septum na i Proc Roy Soc Med Lond 1928 XX1 1802 Dacryocystorrhinostomy R L MULET Clin y lab 1928 XIV 20

Cerebrospinal rhinorrhoea following intranasal surgers E H CAMPBELL Ann Otol Rhinol and Laryngol 1928 ***vn 86

The diagnosis of sinus disease by injection of opaque solutions II I IAN OSDOL Inn Otol Rhinol and Laryngol 1928 xxxvii 941

The upright position and a vertical radi graphic unit for mentgen ray examination of the nasal accessory sinuses S ISRAEL Laryngoscope 1929 xxxviii 585

Sources of error in sinus radiography with fluid contrast media A W PROETZ Ann Otol Rhinol and Laryngol 1028 XXXVII 806

Familial infection of chronic simusitis ats clinical import P WATSON WILLIAMS I FOR ROY Soc Med Lond 1928 TTI 1700

BIBLIOGRAPHY of CURRENT LITERATURE

NITE-THE BOLD FACE PIGGRES IN BRACKETS AT THE RIGHT OF A REFERENCE I DICATE THE PAGE OF IES ISSUE ON MINCH AN ABSTRACT OF THE ARTICLE REFFERED TO MAY BE FOUND

SURGERY OF THE HEAD AND NECK

Rend

Partial acenesis of the bones of the head F Coxes Radiol med 1938 x 36 H pero to is cranu F D D Davis Proc Ros Soc Mrd Lond 1925 xx1 1796

Non syphilitic exostores of the cranium. Mat charge Bull et m m Soc nat de chir 2025, liv o o Multiple compound fracture of the skull C R H TICHBORNE Lancet 1929 CCEN 500

Intracranial harmorrhage f llowing head injury C (COLEMAN South M I 10 8 XXI 60

Cranial pneumatocele Ranu Zentralbl f Chir 1025

Cranotomy incisions without forceps L S CRAWFORD Arch Sure 1028 xvii. 4 2 Various methods of repairing wounds of the skull and the report of a care of extensive eraniopla to by means of an autoplastic osteopenisteal flap from the tibia L

Gioja Arch ital dichir 1928 xxi, 15 [4]
Plastic operations for postoperative defects of the skull W Ostno v Kr. Pol ka przesład chir 1925 vii 14 Dufficulties in diagnosing lateral sinus thrombosis \ P

STATIFFE inn Otol Rhinol and Laryneol 1028 XXXVII SOO Septic thrombosis of the cavernous sinu report of two

cases L S Powell Ann Otol. Rhinol and Larvney 1025, TETVE 000 Primary jugular bulb thrombos: J L Maynett and I

B Goldhan Larvegoscope 19 8 xxxx 11 569 Fracture of the malar zvp mat c arch review of the Isterature—a simplified operati e technic ca.e reports
S E Roberts Ann Ot L Rhinol and Laryngol 1925

Fractures of the bones of the face P F TITTERINGTON Radiology 10 9 xL o

Recent fractures of the nose P C HEET I de chit [4] Osteoma of the orbit and maxilla E. D D Davi

Proc Roy Soc Med Lond. 10 8 xx1 1 06 Exten we esteomychitis f the frontal ren n multiple operations death R H. SKILLERA Ann Otol Rhinol

and Larvagol 19 5 XXVII See Envipelas of the face or furuncle of the nose L RAMOND Presse med Par 19 5, xxxv1 053 I veoparotid fever as a manufestation of Mikul z syn

drome L. I HUBURGER and A J SCHUFFER Am. J Di Child to 9 xxxvi 444 The pathology of parotid tumors P METER Arch I

Min Chir 1928 cl, 20 The pure hinge action in the temporomandibular joint H Sicher Zischr f Stomatol 1918 ENA 304
Hyperostosi of the maxilla E D D Davis Proc.

Roy Soc Med Lond 1928 xm 1 96

Arthroplasts in true anks loss of the jaw A. K. Hr. tt Lancet 1028 ccx1 640

Osteomyelitis of the uperior maxilla in the prosit, in fant J Terracol. Arch internat de laryagel, 19 3

The sequelæ of phosphorus necrosis of the pr 1 LERDROSS. Wien med Wehnschr 102 laz 2, 11 4 I ca e of multiple dermal cancer in t. e face and co the neck. H. Operr r Acta radiol 10 8 tt to

Report of the section of Ophthalmolog New 1 4 Academy of Medicine T H. Jourson Arch. On th. 10

Nu 543 Report of the annual congress of the Oohthalmol-coal Society of the Lasted Kingdom, H Dicktoon And

Ophth 1925 hu 551 Telescopic pectacles A H. LEVY But M J r

Non-compensable visual defect in industrial optibil moles GR McActiff Am. J Oahth to An. 35 1-The eve and general medicine A G FARRER On

Stat M J 1925 XXII 10 The n w facts concerning the role of the cervical or pathetic in ocular ph a los R. LERGHE and R. I.

PAINE Presse med I ar 10 S, EXXV., 1041 The rol of the arephenamin s in the production of ord-less n I L ZINVERMANN Arch Ophth 19 % has on

I e conditions in leukamia report of four cases. A
sea 4rch Ophth 9 8 1 u 4 4
Total congenital color blindnes 5 J Brice. J ta

W Ass 1935 xx1 934
The alue of 1t lamp micro-copy E. L. Gour, Text State J VI 10 9 ESI 35

Protein therapy - specific and non specific in op all mol > 1 C Noons treh Ophth, 19 Cl u 4 Ultra rolet light in the treatment of ophthalmic desice. W S DURE LIDER Bot | Ophth 19 \ xu, 29 Interesting details of a case of ocular trauma.ca.

M REVEDO Med Ibera, 10 8 xii 34. Plastic surgers of the orbit LG Wines. Texas Cate

M 1028 XG 330 Orb tal involvement from nasal sinus disease simpliand ca ernou, inus thrombosis, H V Laxcoox In]

Ophth 1937 n. 3 10

Valenancy of the orb t and accessory mass. H T

Avxsworth Texas Sate J W 10 8 xxii 334

Pulsating exophthalmos DeW Harlett Am J

Ophth 1928 x13s to Glaucosan in glaucoma D K Practice. Am J Ord-

1938 31 38 703
Strabi mus in infance and early childhood H. C.
Williard J. Med Soc & Jersey 1928 28 581

Tear sucsuriery J J Cornerr New Fingland J Med

1029 CYCLY 450

Lartial staphyloma of the corner R A STONES Brit M J 1928 11 488 The reaction of the lymph ves els of the bulbar con

junctiva in tuberculsus infection J Lijo Pavia Rev Soc de med interna y Soc de ti isl 1928 iv 253 Parinaud conjunctivitis R \ Tomasseve

Ophth 1918 x1 3 8 721 Guttate chorioditis P Saranowska Semana med

1928 TXXV 137 A case of humanguma of the choroid S B MIRLOW

Arch Ophth 1928 luu 484 I new operative procedure in ca es of shallow anterior chamber W I Swerr Am J Ophth 1928 ti 38 717 Cloquet's canal visible in the living with observation of ham rrhage into Cloquet's canal O Barkan Arch Onhth 1928 lvn 502

Periodic ophthalmia in solipeds and its relation to uveitis in man F C Rosevow and F Lewis J Am M Ass

1928 xct 621

Bacterial antigen in uveitis R I Mason Am J Ophth 10 8 x1 3 8 702 Ri ht and left indocycliss J I CUNNIGHAM and II YEAR I for Roy Soc Med Lond 1928 XXI 1806

An arborescent cataract J D M CARDELL Proc Roy 5 c Med Lond 1929 xxi 1806 The proteins of the Jens and their chemical changes in

the pathogenesis of senile cataract I S Tassarav Arch Ophth 1928 lvn 361 Chemical analyses of blood in patients having senile

cataract C S O BRIEN and V C MLYERS Arch Int Med 1928 viii 3 6 Lens protein—the i olation of a third (gamma) crystallin

I L BUREY and A C WOODS Arch Ophth 19 8 lvii The progress attained the last thirty years in the treat

ment of cata act M Marquez Med Ibera 1928 xii 20 Some analytical observations on the vitreou humor in m n rmal and glaucomatous eyes C NEWCOMB and I F WRIGHT Arch Ophth 1928 lvn 480

The retinal circulation the value of its study in neuroschiatry Claude Laureche and Dubar Tresse me ! lar 1928 xxxvi 105

I mboli m or thrombosis of the central retinal vessels? 1 Castero Canadian W 1s J 1918 tix 344
1 case of retinitis problemas without history N B B I LEVING Proc Roy Soc Med Lond 1928 xx1 1805

Di cil irm macular degeneration B Cusimin Am I Ophth 19 8 xt 3 5 720 ca e of gh sarcoma of the return in a child of three I C HUDSON Lancet 1928 ccxv 598

Juvenile atrophy of the optic nerve H D Lans J Herpes zo ter ophthalmicus C D Townes Kentucky

M J 1928 vavi 480 Veurohbromatosis or plexiform neuroma F ILLER

I roc Roy Soc Med Lond 1928 ver 1800

Ear

The correction of out tand ng ears W Kosch D utsche med Wehnschr 1978 is 560
The so-called congenital fi tula of the ear Selfer Some clinical observations on the custachian tube

D Roy Ann Otol Rhinol and Laryngol 1928 TXXVII I new instrument for catheterizing the eustach an tube C & CALE Arch Otolaryngol 1928 vii 332

Physical therapeutic methods in otclary ngology 1 HOLLENDER and M. H. COTTLE Illinois M. J. 1928 liv.

I lectric ionizati n in otorhinology Med J Australia 1928 ii 239 Contribution to the study of the hemostatic action of

the X ray in otorhinolaryngology G BARTHELMÉ I resse med Par 1928 TTTV1 1982 Late radium necrosis of hone and cartilage L CASTER (v

Rev de especialidades 1928 in ,0

Brief consideration upon some cases of hypo acusin I Samen o and I I RRECART Rev de especial lades 1928 m 63 The madequacy of treatment of chronic deafness G B

McAULIFFE Med J & Rec 1928 exxviii 205

Certain aspects of tinnitus particularly treatment I H
J NFS and V O KNUDSEN Laryngo cope 1928 xxxviii

Local infection in the ear nose and throat and renal

disease M M SAVACE Latyrigo cope 1928 TXXVIII Report of an ear condition in a cs + of Ravnauls disease G B DOWLING Proc Roy Soc Med Land

1028 XX1 I 66 Acute non suppurative otitis media an I sequela: a re view of 100 cases CTA FLILLE Ann Otol Rhinol &

Laryngol 1928 xxxx 11 1907 Acute and chronic otitis media an I sinus thrombosi J Kopetzky Arch Otolaryngol 10 8 vm 334

In unu ual mastoid complication J I FISHER Laryn goscope 1028 xxxviii 618

Nose and Sinuses

Nasal respiratory insufficiency G Works Arch in ternat de laryngol 1928 xxxiv 641 Recurring head colds T R GAINES I South Carolina M 448 1928 XXIV 208

Some observations on nasopharyngeal epidemics in public schools J 1 GLOVER Proc Roy Soc Me l Lond 1029 Xtu 1003

Considerations upon the etiology of atrophic rhinitis J O Day Rev med de Chile 1028 lv1 677 Rhinoscleroma F \ I for and L Thompsox I

11 1 s 1928 xc1 637 Radium treatment of nasopharyngeal f bromata I S MERTINS South M J 19 8 XXI 711 The endoseptal route II ZUBIZARRETA Semana me I

1928 XXXV 1 Telangiectasi of the nasal septum treated with radi im C SCAL Arch Otolaryngol 1928 viii 312

Spindl celled sarcoma of septum nasi Proc Roy Soc Med Lond 1928 xx1 1802
Dacryocystorrhinostomy R L Miller thin y lab

1928 XIV 20 Cerebrospinal rhinorrhoea following intranasal surgers

E H CAMPBELL 3nn Otol Rhinol and Laryngol 1928 TTTVII 865 The diapnosis of sinus disease by injection of opaliue

solutions H 1 14 Ospor Inn Otol Rhinol and Laryngol 1928 TTXVII 943 The upright position and a vertical radiographic unit

for roentgen ray examination of the nasal a cessory sinuses S ISRAEL Laryngoscope 1928 xxxviii 585 Sources of error in sinus radiography with fluid contrast media 1 W PROET? Ann Otol Rhinol and Laryngol

1928 XXXVII Soft Fam hal infection of chronic sinusitis ats clinical import P Warson Williams Proc Roy Soc Med Land 1928 XX1 1790

Chronic non tubercul us lung infection secondary to chronic sinus infection & DENRAM J Med Cincinnati 1925 1x 312

I v ry small frontal sinus associate I with severe head aches no suppuration present H TILLEY Proc Roy Soc Med Lond 1918 xx1 1800 Pricumonia following external operation on frontal sinus

death R H Settlery Ann Otol Rhinol and Laryn gol 1923, xtxvii 877 833 Sphenoi i pathology C CLARK, IAULA and ULLWAY

California & West Med. 1928 xur 168 A carcinoma of the right ethmoid N PATTERSON Proc.

Roy Soc Med Lond 1928 xx1 1801 Report of a ca e of epithelioma of the maxillary sinus treated and cured for a year by combined surgery and radium therapy BERARD and DUNET I von thir 1019

XXV 470 The management of malignancies of the antrum superior maxilla pharynx and larynx at the Radium Institute of the University of Laris G T Lick Ann Otol Rhinol & Laryngol 1028 xxxvii of 7

Mouth

In anti mouth breathing mask T B Tonson Proc. I oy Soc Med Lond 1923 xx1 1798

in anatomical study of total unilateral harelip 1 VEAU Ann danat path 1928, v 60r Harelip in univitelline twins G Livy Bull See dobst

et de gynée de l'ar 1928 xvn 661 The operation for harelip according to the method of

Orlowsky I D MASSLOFF Arch f klin Chir 1928 cl 322 Embryology and dental malformations

Bru elles med 1918 viii 1365 Wrong concepts in orthodontia E HERBST Portscht

d Zahnh., 1927 11 855 The pulpless tooth I F BRAUSFORD But I Radi 1 1928 1 315

Feeth as a source of f cal infection C D Townes Virginia M Month 1948 1 495 The treatment of fusospirillary infections of the mouth in children with special refer nee to the intramuscular

administration of sulpharsphenemine It K FABER Am J Dis Child 1928 xxxvi 463 Hemiplegia of the palate Sir J DUNDAS-GRANT Proc Roy Soc Med Lond 1928 xxi 1804

A tumor of the palate of hie long duration O POPPER. I roc Roy Soc Med Lond 1918 xti 1803 case of ep thel oma of the floor of the mouth cured by

radium therapy BERARD and DUNET Lyon chir 1928 XTV 459 The operative treatment of tumors of the mouth 12w

and pharynx in Surgical Clinic B of the Rikshospital from 1 Owne Yorsk Mag f Largevidensk 1913 to 1925 1928 IXXXIX T Carcinoma of the tongue W I WASSING Nederl

Tij lischt v Geneesk 1928 lexii 1030 An epithelioma of the tongue cured by combined surgical and radium treatment BERARD and DUNET Lyon chir 1028 XXV 480

Pharynx

Infrequent anguas desirability of thorough laboratory study V & HART Ann Otol Rhinol and Laryn, ol 1928 TTTVII 89

The silent tons lats relation to albuminuma C P JOVES Ant Otol Rhin l and I aryogol 1928 v vii 9.4

Infected tonsil as a factor in the etiology of rheumati m M Lout vos Virginia M Month 1928 lv 195 I hlegmon of the lineual tonsil I Microv Ires embl 1 17 1928 XXXVI 1084

I tumor growing from the lower part of the left tonsil and base of the tongue Six I DUNDAS GRANT Pine P v Soc Med. Lond 1028 xx1 1708

Why remove tonsils and adenoids? G O Craures Med J & Rec 1928 extra 201 The operative cure of tonsillar sepsis Luick Zischr

f Hals \asen u Ohrenbeilk 1928 xviii 546 559 The coagulation time before tonsillictomy ALEINERT Ann Otol Rhinol & Larvngol 1028 xxxvu.

Methods of estimating the liability to postoperati e hæmorrhage from un utured wounds (followin, toesillet tomy) A L YATES Proc Roy Soc Med Lond 1018 XT) 1784

Use of the Clover inhaler in tonsillectomy and removal of adenoids Sir C J Symonos Brit M J 1928 ii 58t

Neck

The roentgenological study of the neck S Brown and H G REINELE Am J Roentgenol 1928 xx 208 Pterygium colli congenitum M DE BRUT Seder Tijdschr v Genecsk 1918 k u 1895

A traumatic hematocele of the thyroid C LENDRUNT I resse med Par 1918 trevi 1019

Studies of the endocrine glands III The thyroid C II I (WRENCE and 1 W ROWE, Indocrinology 1929 14,

The function and iodine values of the thyroid B BREITVER Mitt a d Grenz, eb d Med u Chir 1925

The effect of sodine and thyroid feeding on the thyn il gland an experimental study W B Mossex Sur-Gynec & Obst 1028 xlvn 168 The biochemistry and geochemistry of iodine G LUNDE

Northwest Me ! 1028 xxvi: 412 The life curve of thyroid glands in g itrous and n

gostrous districts H May Arch f klin Chr 1918 critx 501 Malfunctions of the thyroid gland. The b icp nopf

underlying their modern treatment JR C rety North west Med 1928 xxv1 418

Glycosuria thyroid di ea e and diabetes 1 M CNIN Med Clin N Am 1928 xii 353

Hypothyroulism F L Bamors Med Cln \ Am 1928 XII, 291 The oculocarinac reflex in thyroil insufficiency of

creating I De OUERVAIN Lyon chir 1928 XX 506 Thyroxin in the treatment of hypothyroid states a nice ad antages over gland opotherapy M 1 Currex and M SCHILLINGART Arch. argent de enferm d ap r duest

1928 14 727 Go ter W 1 Killins Med Cln \ 1m 1979 28 The relation of goster to the b rd rline f med cine
J E HONTER J Nat M Ass 928 vv 127_

The treatment of simple g it r BLEGEAT Pre em d Par 1928 XX 101, 032

Conter cures W KERSTEN Fortschr d Th rap 1925 IV 170 Basal metabolic determinat n b fore an l'after opera

t one for gotter in fifty cases F Baufa Arch f kim Chir 925 exlix 22
Two cases of hyperthyroidism one of B rraqu'rs syndrom A BUYLLA and V LAMBEA Pro de la cla

Madnd 1918 vvi 49

Experimental hyperthyroidism and its effect on the reproductive function and the progeny G DOEDERLEIN

Arch f Gynaek 1928 exxxiii 690 [7]
Relative lymphocy tosis in hyperthyroi fism \ Mevalv
Arch Int Med 1928 xlii 410

Arch int sted 1920 km 419
An adenoma of the thyroid gland T D Sparrow
South M & S 19 3 xc 599
Thyroid adenomata L Rogers Am I Surg 1028 v

26 Nodular or adenomatous gotter and papillary cy tade noma of the ovary A Worvicz Ginekol polska 101

Trophthalmic goster A S Jackson Wisconsin M J

A new palpebral symptom of Basedow's disease G GALAT I foliclin Rome 1028 XXXV sez prat 1438 The correlations of Graves disease and thyroditis J EASON Lidinburgh M J 1938 XXV Med Chir Soc 169

Eason Edinburgh M J 1918 xxxv Aled Chir Soc 109
The iodine treatment of Basedow's disease Bruztr
Zentralbl f Chir 1928 lv 80

Clinical aspects and treatment of malignant gotter C Bartiers Beitr z klin Chir 1928 ctlir 717 Tetany following, thyroidectomy G P Pratt Med Chin N Am 1928 xii 319

Clin N Am 1928 xii 319 Tetany involving the rectus abdominis S Lerner

Brit M J 1928 n 489
Clinical study of genuine and parathyroid telany re lations to allied conditions differential diagnosi and treatment H Westings I. In Welnschr 1928 vii

A laryngeal case for diagnosis M VLASTO Proc Roy Sot Vied Lond to 8 xx1 1705

Alaryn_catease for dia_nosis T B Jobson Proc Roy Soc Med Lond 1918 vii 1799 Laryngeal sensormotor neurosis H C Fond Arch

Laryngeat sensormotor neurosis 11 C 1000 Arch Otolaryngol 1918 viii 309 Non surgical subcutaneous emphysema in laryngeal

diphtheria J D ROLLESTON Brit J Child Dis 1928
xxv 18,
Two cases of laryn, eal and pulmonary tuberculosis
organisting from the tonsil one after cauterization the
other after tonsillections. Kowings Arch internat do

laryngol 1928 xxxv 592
A case report of membranous laryngitis and trachetts
with a staphylococcus aureus hemolyticus infection G
BERRY Ann Otol Rhinol & Laryngol 1928 xxxvii

geo
A lymphan, ioma of the larynx A R Tweedte Proc

A lymphan, some of the laryne A R Tweedle Proc Roy Soc Med Lond 1928 xx1 1,97

The early dia_nosis and conservative treatment of cancer

of the larynx L V Segura Rev de especialidades 1928 in 62

An extrusuc carcinoma of the larger treated with dia thermy and rays G B Barnes I roc Roy Soc Med Lond 1928 XVI 1802

Intrinsic cancer of the largest operated upon through a large, of source Sir St C Thomson I roc Roy Soc Med Lond 1923 vs. 1702

Some varieties of skin flaps in connection with cases of total and hemilaryngectomies R G Brown Proc Roy Soc Med Lond 1928 vol 1566 [8]

Soc Med Lond 1928 vti 1566 [8]
The occurrence of an unusual complication following laryn, ectomy L College J Laryn, ol & Otol 1928 vtin 561.

SURGERY OF THE NERVOUS SYSTEM

Brain and Its Coverings Cramal Nerves

The determination of permanent disability following injuries of the head R M CARTER Illinois M J 1928 liv 221

The aftermath of head injuries J. I. Eckel. Nork State J. M. 1978 xxviii 771 [9]
Discussion—the aftermath of head injuries. M. M.

PEET Nork State J M 1928 TYVIII 777

Some observations in connection with epil psy and some of the diseases of childhood. H. A. PATTERSON and S. M. METGROW. N. York State J. M. 1918. XXVIII. 1106

The after-care of children. I. T. Fox. Lancet.

The after-care of epileptic children J T Fox Lancet 1918 ccav 545 The late extraction of intra cerebral projectiles G

Réchou and G Jeannevey J de méd de Bordeaux 918 cv 506 Cerebral bernia complicating chronic mastoiditis pen

sinus abscess thrombosis of the lateral sinus and jumilar vein operation with recovery II S WINDER Ann Otol Rhinol and Laryngol 1928 XXVII 896 Atternovenous aneum m of the brain W. E. Dandy

Arch Surg 1918 vvu 190
Actinomycosis of the brain with particular consideration of the hamatogenous metastatic type F Jacoby Arch

f kim Chr 1928 cxlix 621

The avenues of intracranial infection from the nose particularly foll wing nasal surgery all o the relation of

paticularly foll wing nasal surgery all o the relation of e ternal infection to intracranial complications J \ Pattr \text{ An Otol Rhinol & Larying 1 19 8 x xvii \text{ Othic brain absc s and its diagnosis G \text{ Volume}

Mel Clin N \m 1918 xii 407

Abscess of the brain of otitic origin J H Brann Ann Otol Rhinol and Laryngol 19 8 xxvii 810 Some notes on the diagnosi and symptomatology of brain abscess of otitic origin J A Babbitt Ann Otol

Rhinol and Laryngol 1948 TYTVIII 950
The clinical significance of choked disks produced by abscess of the brain W I I ILLIE Surg Gynec & Obst

1928 xlvii 495
The pathologico-anatomical picture of an abscess of oral origin repturing into the brain L Singer Deutsche

orn, in reptuming into the brain L Stager Deutsche Monats chr f Zahnh 1027 xlv 345 Intracranial calculations J T Mureum Radiology 1028 yr 213 The histological structure of the pineal gland P Rio

HORTEGA Pros. de la clin Madrid 1928 xvi 178 [9]
The physiology and pathology of the hypophysis F
Poos Klin Wchnschr 1927 vi 1884
The pituitary as activator of the gonadal function II

ine pituitary as activator of the gonadal function. H.
BENJANY Med J & Rec. 19 8 csvviii 227
The articlustrate offset of the second 227

The antiduretic effect of pituitary ovytocic and pressor principles on water diuresis in man 1 M. Hjorr and 1 H Hanover Endocrinology 1028 xii 406

A tumor of the hypophysis report of a case F II Lee 3rch Otolaryngol 19 8 viii 329
A buccal route to the hypophysis LLCC Zentralbl f

Chir 1928 Iv 945

Occupital lobe tumors I Pulsery Folia neuropathol
Esthonia 192 vi 100

Esthonia 102 VII 130
Spongi iblastoma of the ru,ht occipital lole of the cere bellum M BALADO and E B CRAMER. Arch argent de neurol 1028 il 222

Glioma in the motor cortex simulating grand and petit mal P Work Colorado Med 1928 KEV 198

Chroni non tuberculous lung infection secondary to chronic sinus infection K DUNITAR I Med Cincinnati 1028 14 312 A very small frontal sinus associated with severe head

aches no suppuration present II Tilley Proc Roy Soc Med Lond 1028 xxi 1800 Preumonia following external operation on frontal sinus

death R II SKILLERY Ann Otol Rhinol and Laryn gol 1028 xxxvit 827 883 Sphenoud pathology CLARA PAULA and ULLMAN California & West Med 1028 xve 168

A carcinoma of the right ethmoid N LATTERSON Proc Roy Soc Med Lond 1028 vvi 1801

Report of a case of emithely ma of the manifary sinus treated and cured for a year by combined surgery and ridium therapy BERARD and DUNET Lyon chir 1928 XXV 4 9

The management of malignancies of the antrum superior maxilla pharynx and larynx at the Radium Institute of the University of I aris G T I ten Ann Otol Rhinol & Laryn_ol 1928 xxxvu of

Month

In anti mouth breathing mask T B Jonson I roc R y Soc Med Lond 1918 XXI I GS

In anatomical study of total unilateral harelin \ VEAU Ann danat path 1928 v 601 Harelip in univitell ne twins & LEVY Bull Soc d obst

et de gypéc de Par 1029 xvii 661 The operation for harelip according to the method of

Orlowsky I D Massiore Arch f klin Chir 1028 cl

Embryology and dental malformations CAPENAT Bruvelles med 1928 viii 136

Wrong concepts in orthodontin E HERBST Fortschr Zahnli 1927 m 855
The pulpless tooth J F Bransford Bnt J Rad I

1028 1 315 Teeth as a source of focal infection C D Townes Vi guna M Month 1928 lv 495 The treatment of fusospinilary infections of the mouth

in children with special reference to the intramuscular administration of sulpharsphenamine II k FABER \m I Dis Child 1023 xxxvi 463

Hemplegia of the palate Sir J DUNDAS GRANT Proc R y Soc Med Lond 1928 XVI 1804 A tumor of the palate of life long duration O POPPER

I oc Roy Soc Med Lond 1928 xx1 1893 A case of epithelisma of the floor of the mouth cured by radium therapy Béraro and DUNET Lyon chir 1928

The operate e treatment of tumors of the mouth saw and pharyny in Surgical Clinic B of the Rikshospital from 1913 to 1925 A Owne Norsk Mag f Largevidensk

1028 IXXXIX I Carcinoma of the tongue W F Wasstak Aederl Tudschr v Geneesk 1928 lexii 1039 In epithelioms of the tingue cured by combined surgical

and radium treatment BERARD and DUNET Lyon chir 10 8 XXV 480

Pharynx

Infrequent anom s desirability of thorough laboratory study V k HART Ann Otol Rhinol and Laryngol

1919 x vvii 885 The silent tonsil its relation to albuminums C I Joses Ann Otol Rhin I and Jaryngol 1928 xxxxu 054

Infected tonsils as a factor in the etiplory of rheumatism M I DAUNDS Virginia M Month 1928 lv 306 Phleemon of the lingual ton il. P Micron Lin end!

Par 1018 revu 1081 I tumor growing from the lower part of the left bin?

and base of the tongue SER J DUNDAN GRANT INCRY, Soc Med Lond 1928 XXI 1798 Why remove tonsils and adenoids G O CUMMINGS Med J & Rec. 1928 CEEVILL 201

The operative cure of tonsillar sepsis KNKK Zisch f Hals-Vasen u Ohrenheilk, 1028 zvui 546 550

The coagulation time before tonsillectomy KLEIVERT Ann Otol Rhinol & Laryngol 10 5 Euryn,

977 Methods of estumating the hability to postoperative hæmorrha e from unsutured wounds (foll win t nsilec tomy) A L LATES I roc Roy Soc Med Lond 1915 XXI 1784 Use of the Clover inhaler in tonsill ctomy and rem val of adenoids Sir C J Symonus Brit M J 1928 n 58:

Neck

The roentgenological study of the neck S Brown and H G REINERE Am J Roentgenol 1028 xx of Pterygrum colls congenitum M DE BREIN Acl i

Tijdschr v Geneesk 1028 lxxii 1895 A traumatic hematocele of the thyroid C LENORUST Presse mid Par 1925 xxxvi 1010

Studies of the end crine glands III The thyrod C II I AWRENCE and A W Rowe Ladocrinology 19 5 til-

The function and sodine values of the thyroid B BREITVER Mitt a d Gren seb d Med u Chir 1975 rl 618

The effect of sodine and thyroid feeding on the thyroid gland an experimental study W B Mos ER Sure Gynec & Obst. 1029 vlvn. 163

The biochemistry and geochemistry of todine G I LYDE Northwest Med 1928 Even 412

The life curve of thyroid gland in gostrous and n is gutrous district. H. May Arch f. klin. Chir. 198

Malfunctions of the thyro d gland. The base principle

underlying their modern treatment J & Corres \ rth West Med 1928 TVV 418
Glycosuria thyroidd ease and diabetes 1: M Co us

Med Clin N Am 1928 xii 353 Hypothyroidism L L BRIDGES Med Clin V in

1029 XII, 201 The oculocardiac refl v in thyroid in uffici ney of creatine I De OUERVAIN In chir 19 8 xx 305

Thyro in in the treatment of hypotheroil states sim ad antages over gland opotherapy M. J. CASTEX and M. SchtersGirt i ch argent de nferm d spar d est 92⁹ ti 727 Goster W A KELEN Med Clin Am 1919 111

The relation of go ter to the hord rime of a theme J I HUNTER J Nat M Ass 10 9 x 12 The treatment of simple g iter Buggeat I res em d I at 1028 XXXVI 1032

Go ter cures. W KERSTEN Fortschr d Therap 19 8 Ba I metabol c d term nati as befor and after opers

ti as fo got r in fifty cases 1 Batter A ch. f klm. Chir 928 cxli Two cases of hype thy alism one of Barraquer's

yndrome A BUYLLA and I LAMBEA Pro de la clin Madrid 192 XV 497

Radiotherapy of cancer of the breast G DOVATO Pro., de la clin Madrid 1928 xv1 463

Trachea Lungs and Pleura

Traumaticemphysema J DotoLas and I C Mortos

The relation between the bacterial flora and tracheo bronchial forer in bods a prehiminary study based on 100 cases C J Bichier J Am M Ass 1928 vol 633 S m exp nence in bronchoscopy and esophareoscopy foreign body case report S D E Neights J Assas M

Soc 1938 xux 201

Radiotranslucent foreign material in the luryn 3 tra
cheo bronchial tree 1 McConvis Ann Otol Rhinol

& Laryn ol 1928 vvviii 1003

The removal of an orange pip from the bronchus V E

EGGS Proc Roy Soc Med Lond 1928 xvi 1800

Silicosis A FRIEDLANDER J Med Cincinnati 1928

Contribution to the knowledge of the roentgenological appearance of silcosis R C Onnan Acta radi l 1928 at 266

The increasing frequency of pulmonary embolism S OBFRNDORFER Muenchen med Wchnschr 1928 levy

Multiple hydatid cysts of the lung case report J H. Marier Brit J Radiol 1928 1 313

Martier Brit J Radiol 1928 1 313
Actinomyc sis of the lung report of a case in which
brench; conv and injections of iodized oil 40 per cent

brench) copy and injections of iodized oil 40 per cent were used: F. F. Johnson and J. D. Kernan, Am. J. Dis Child togis xxxvi 508 I rimary tuberculosis of the upper respiratory. Tract. F. J. Dexvis. Ann. Otol. Blanol. & Lytyn. 1. 025 xxxvii.

Q65 Lucaliz d pneumothoras and cavities in tubercul si I I De l'arreagnoso I ev méd de Barc lona 10 8

5 488
Some evp riences in the surfical treatment of pulmonary tuberculo is J Divi Rozhledy v chir a gynaek

02 vi 139
I vp riences in the fir t surgical clinic with the surgical treatment of pulmonary tubercubers
I Knoblech
Rozhledy v chir a gynach 102 vi 140

Rozhledy v chir a gynaek 192 vi r40

The re piratory mechanics in pulmonary tuberculosis treated by cillapse therapy V Boxono Policlin Rome 1928 vxvv ez chir 1 7

The pleural pressure in pneumothorax | U BONDRIN) and U Arilio | Rev Soc de med internaly Soc de titol 102% by 217

Variations of endopleural pressure in relation to the postion of the patient and their importance in the induction of pneumothorax VI Vazzetti Policlin Rom 1948 XXV SEZ DIAL 201

1918 vvvv sez prat 791
The combinat n of pneumothorax and phrenicotomy
M Gitnerr Rev med de la Susse Rom 1918 vlviii

The question of priority and a clinical study of medias tinal hernia in the course of si ontaneous and therapeutic pneumothorax G Avezzi Riforma med 19 8 xh 447

"Clear effusions and paradoxical increase of the fluid in the pleuras sof therapeutic pneumoth ray A Syrkov and I Mas Rev med Lathing 128 via 1920 Docessof the lung of selection and the constraints of a case R McKinskey Arch Old 19 mgol 1928 11

Inn abscess following tonsillectomy from the stand point of the bronchoscopist L II CLYRF Atlantic M J 1918 XXXI 911 Dilatation of the brenchi bronchiectasis and I ronchiectasia 1 M Barlaro Rev med Lat Am 1928 xiii 1840
Bronchiectasis in children the pseudorobust appearance

in cases associated with nasal accessory sinus suppuration R G Brows I roc Roy Soc Med I ond 1022 vo. 1560 J I arynnol & Old 1028 vin 636 1181 The surgical treatment of br nemectasis W DeW

Appear J Med Cincinnati 1928 ix 316

Oleothorax and pneumothorax in the treatment of pul monary gapging T I chesis, Policin Kome 19 8

The uccessful operative removal of a peculiar lung tumor (plasmocytoma) a clinical and histol ac contribution on lung tumors G Divi and H Sikl. Acta

chirurg Scand 1928 Ixiii o
Iostoperative pulm nary atelectasi W. I' I er C
Tucker and L. Clerr Ann. Surg. 1928 Ixxxviii 6

Studies on experimental pulmonary atelectasis W I

Ann Surg 1928 lexxum 15 [18]
Massive (atelectatic) collapse of the lung L R SANTE
Am J Roentgenol 1928 xx 213
The treatment of massive collapse of the lung R H

The treatment of massive collapse of the lung P H Meide and V W Archer Virginia M Month 1918 Iv 378

Surgery of the lung care of the stump in pneumectomy and in lobectomy M JOANNIDES Arch Surg 1928 xvii 01

The diagnosis and treatment of spontaneous pneumothorax I II Homes Texas State J W 1928 xxiv 340

Recurrent spontaneous pneumothors: A Mills Edinburgh M J 1929 xxxv 540 Extrapleural thoracoplasty in the treatment of fistuliz

ing tuberculo is pneumoth fray DE Hyrven Bruvelles med 19 % via 1407.
Acute empyema treatment by continuous tidal irrigation and drainage dependent on normal respirators move

ments D HART Arch Sur_b 1928 xvu roz [20] Further experiences and cures with alkalinization of abscesses and pneumococcic empyems Von GAZA Zentralbi f Chir 10 8 lv 207

Heart and Pericardium

Wound of the heart report of two cases D M Cox Arch Surg xvii 484

Two cases of carchae sutu e W Sudnorr Muenchen mel Wehnschr 1928 lxxv 479 The rem val of a bull t fr m the posterior wall of the

pencard um Hrsz Zentrall I f Chir 1928 lv 996 Vease of successfully operated concretio pericardi. A Lewes and M Marries. Deutsche med Wehnschr 1928 liv 617

Esophagus and Mediastinum

Some radiographic aids in the diagnosi of diseases of the co-ophisius and cardia JR Carty Nork State J

Rec astruction of the upper end of the resorthagus V E Vents I roc Roy Soc Med Lond 1928 xxi

Di placement of the mediastinum in pistoperative scoli si and its practical significance. R. Misses. Muen chen med Wchnschr. 1928. kxv. 528.

Familial enlargement of the thymus G M SLOT Lancet 1028 cers 652

\ study of the rece in of thiked diks following opera te ne for brain tum r G Horres and C Haight Ophth 1928 Ivn 46 [101 A chapter from brain and spinal card arriery ITRICEL harl bad raerztl Vortr 1029 12 26,

The menincitides R M I OLLITZER Arch Ped at. 1 328 xh 545 I neumococcic menin itis W R Kenneny Canadian

M has J 19 8 xir 336

Menin iti lue to micrococus catarrhal s F P

Morrach and I Thours in J lancet 1928 alan

The sure ical treatment of mening it is following trainments

and other infections \ GULEKF 52 lag d dut ch Cacs f Chir Berlin 1028 Persi tent hiccough control by cocamization of the nasal (sphenopalatine Meckel's) can lia J B Costes Otol Ahmol and larymol to 8 xxx it 860

Handb ok of normal and t athol great physiciony With particular c nsi lerat on of experim ntal pharmacol ry Ed ted by BETTE BERGHAN I MEDEN and FLLINGER Vol X Special physiology of the central nervous ystem of vert 1 rates 1927 Berlin Springer

Spinal Cord and Its Coverings

The physiological xanthochromia of the spinal fluid a tuly of newborn children J P CARRIES Semana méd 1028 XXX 121

The pathological aspects of poli myelitis Med J Au tralia 1028 it fiz

The ep 1 millogy of poliomyeliti I Date Md I lu tralia, 10 8 u 258 The treatment of acute or homyelitis W. L. HLGHE

Mel I Australia 1028 u 276 The treatment of p homy litts during the act te and con val scent stages J MACNAMARA Med J Australia, 1928

Splinting in acute cases of anterior p lions litis F & OSRIS Med J Australia 1928 ii 274
The serum therapy of poliome litis J Machania

Med J Austral a 1928 11, 166
The preparation of serum from human d ncrs recovered from pol myelitis F G Mosca Med J Australia 1928 il 204

Critical examination of lipsodol myelography None Deutsche Ztschr f Nervenh 10 8 en 6 Clinical evaluation of myelogr plue roentgen pictures

A rire case of a pur 1 traducal extramedulitry 1 poma A Beykinch B itr z klin Chir 1928 cxl 1 30 An instance of operative interference becau e of lymph ogranuloma of the cervical cor! a rare complicati n of Hodgkin's di case S June Arch f klin Chir 1928 cl

Surgery of the sp nal cord H AUETTVER Bestr z Um Chir 1928 ext 842

Spinal cord surgery 1 5 tcm Surg Gynec & Obst. 1028 zlvu 259

fractures II PLATT J Bone & Joint Surg. 1915 r 191 Nerve resection for neural is of the lateral cutamos nerse of the thinh A I karr Zentralbl f Chir to 81 Von Pecklinshausen's disease with fibrima of the ap-

nendir T Hoes But M J 1928 11 493 Unusual behavior of a mali nant neuroms. Risk Zentralbl f Chir 1028 ly 1112

Sympathetic Nerves

Peripheral Nerves

Re at ling the p ripheral nerve complications of certain

Clinical ventoes of the autonomous or so-called vert tative hervous system | Buschen, Minnesota Med 1025 XL 582

Surgery of the sympathetic system indications and re sults R I ERICHE Ann Surg 1928 IXXXVIII, 440 Experiences with periarterial sympathectomy J Footo

Hosp Tid 1028 leve 216 5 me experiences with persarterial sympathectomy S RUB ISCHON Z ntralb! f Chir 1028 lv 727 Mo if cats n of the hydrogen on concentration fer nerimental wounds under the influence of operat: as upon

the symp thetic a contribution to the study of the mech anism of the effect produced by operations upon the sym pathetic R IONTHAF and \ JUNG Presse med Par 1025 4441 10 0 The effect of ympathectomy upon the pain of organic

disease of artenes of the lower limbs and for obscure abdominal pain F technolin Ann burg 19 8 lett to

A full by up of sympathectomized patients k Mries Beitr z klin Chir 1928 ctl i 846 The end result of persarterial sympathectomy G P MITLER Ann Surg 1028 Perrynt 4/4

The results of sympathet codiaphoresi in animal ex periment II JEANNES Wien klin Wchnschr 19 3, 21 265 Lumbar ympatheti gan li nectomy and ram sectom?

for convenital idiopath c dilatation of the clin. E S Jon and A W Aprov A n Sur, 1928 lxxxviii 4'9

Miscellaneous The cyt legy of the cerebro pinal fluid in syphilities

studied with the aid of vital impregnation 1 Ray serant R BOLLEY Press ned Pa 1928 xxxvi 85t A cont abution to the study of Targowlas rea ton in the

cerebro p nal flu i \ M FLAMBERTI Presse m d l'ar LOOI 1477X Ptgt Blood in the cerebro pinal fluid resultant functi nal and

o gan c alterat us in the central nervous system BACLEY Ar h Sug of KAN 18 Sucral pan and H ad hyperalgesia R Ktori Zentralbl f Gynnel. 1928 ln 1003

SURGERY OF THE CHEST

Chest Wall and Breast

I study on the influ nce of organo-(placental) ther my on the function of the b a t. \ DE VICOTTI Schw is med Wehn chr 1928 I m 3 4 Vasocon trick r neuro es of the femal n pple M STAKER VI d kln 928 xx1 453

A plast c operat n f pend lous bre st I Lorece klin Wehn chr 1938 vu bo; If n rmal hyperpla is of the f male b ast and its fetion to tum r formation A J TRINCE Med J to tra lia 19 3 32

Hapillary cysta I noma of the breast report factive R C Hill New Orlean M & S J 19 8 lexel on

Gastriculeer H. W. CAVE. Am. J. Surg. 1928 v. 2,7 The lesions of acute and chronic gastritis surrounding ulcers in ulcer of the le ser curvature, therapeutic results

DELOSE and Course Lyon chir 1918 TAV 500
Alkalosis in patients with peptic ulcer W I CATE
WOOD O H GYELER E MONTOVILE and V C MYERS
Arch Int Med 1918 xlii 79
Gastroduodenal ulcer the quiescent period
LEON

MELYTER Presse med Par 1928 xxxvi 1020
Acute p floration of gastric and duodenal ulcers F
Moors and DE CALUWE Vlaamsch geneesk tridschr

1928 x 41

Th diagnosis and treatment of acute perforated gastric ulter J H Howard J Nat M Ass 1928 xx 124

A rare case of perforated ulter of the greater curvature

of the stomach J C Koch and I J Balaban Zentralbl f Chir 19 8 h 658
Gastrojejunocolic fistula G P Pratt Med Chin N

Am 1918 XII 307
What do we really know about the treatment of ulcer?
W. C. ALVAREZ Atlantic M. J. 1928 XXII 918
The roentgen treatment of peptic ul er of the stomach

and duodenum H ADELPANG Warszawskie czasop lek 1918 v 1 o Ulcer surper) (Stomach and duodenum) Bracfild Z ntralbl f Chir 19 8 lv 1046

The sur, ical treatment of gastroduodenal hemorrhages of ulcer on an \ Delore and J De Girardier Presse

méi Par 1928 vvvv 1092

My stand on the question of the surgery of gastroduode

nal ulcer G Doberaver Med Alin 1928 xtiv 332 Surgery of gastric duodenal and jejunal ulcer J Pórva Therapia 1928 v r [26] Two hundred and twenty six operations for gastric and

duodenal ulcer Tanasesco Bull et mem Soc nat de chir 1928 hiv 935 [27] Chronic peptic ulcer record of a personal exp rience

R C Correy J Am M Ass 1928 vol 1 [27]
Hamorrhages following gastro enterostomy and gastre
resection with remarks on the pathogenesis of ulcer H

Gastric resection for ulcer subcutaneous saline gas gangrene recovery H Hagricus Zentrallil f Chir

Gasting resection for ulcer subcutaneous saline gas gangrene recovery H Harrung Zentralbl f Chir 1928 ly 664

The Billroth I resection of the stomach \ Orator

Surg Gynec & Obst 1928 tlvn 368
Recurring ulcers following partial gastrectomy D C
BALFOUR Ann Surg 1928 IXXXVIII 348

The later results of partial gastrectomy N C LAKE
Lincet 1928 ccxv 268 [28

Carcinoma of the stomach J Grek Polska gaz lek-1927 vi 783 Cancer of the greater curvature of the stomach Cain Marchand and August Press med Par 19 8 xxxvi

The sedimentation test in relation to the operability of tastric carcinoma F Nilsson Arch f klin Chir 1928

Kastric careinoma P Nilsson Arch f klin Chir 1928 cthir 756
Thee cured cases of supposed cancer of the stomach D T Quigter Nebraska State M J 1938 xm 338

Hambrida e following operations on the stomach kerches Zentralbl f Chir 1928 lv 738 Vaccination in gastric surgery \ Delose and P Juve Senana med 1928 xxv 1179

I State Semana med 1928 xxvv 1179

The traumatic separation of an intestinal loop P N
Best and 1 VastDevey Brit M J 19 8 n 6 1

Spontaneous rupture of the bowel A BOCHROR Orvosi hetil 19.8 lxm 157
Traumatic sulcutaneous prolapse of the int tine I Brever Zentralbi f Chir 1028 ly 1034

The bacterial flora of the intestine in health and in chronic disease. J CRUICKSRANK Brit M J 19 8 in 555.

The reaction of the intestinal contents of does feel on

The reaction of the intestinal contents of dogs fed on different diets. W. R. Graham and E. S. Leffer, Jr. J. Lab & Clin Med. 1028 xm. 1007

Studies in intestinal obstruction. IV Strangulation obstruction a comparison of the forcity of the intestine and other is sues autolyzed in sino and in sife. O. H. Wancer, STREN and G. W. WALDRON. Arch. Surg. 19.8. viii.

I sperimental studies of acute bowel obstruction I Resorption of the bowel in acute obstruction II Usuro

Resorption of the bowel in acute obstruction II Uship \
Arch I japan Chir 1928 v 219
I urther chemico pathological and experimental studies

of obstruction of the bowel K HAEBEER Verbandl d deut ch Gesellsch f inn Med 1927 313 318 Acute intestinal obstruction R S HAYES J Kansas

VI Soc 1928 XXIX 286

Cases of comiting in children due to toxemia H M
McClanahan and J A Henske Med Clin N Am

1928 xii 537

The influence of spinal anasthesia on the movements of the intestines particularly in intestinal obstruction I LEVEUF Pressemed Par 1928 xxxxi 10 8

An unusual initial symptom (acute appendicitic symptoms) in typhoid fever Y UENO I ukuoka Ikwadaigaku Zasshi 1027 XX 1400

Zasshi 1927 xx 1409
Tuberculosis of the intestine P W Sweet North
wast Med 1928 xxvii 423
Lambliasis of the intestines Gómez Marcano and

Lambhasis of the intestines Gómez Marcano and Guttferez Hernánuez Prog de la clin Madrid 19 8 vi 233

An aseptic method of intestinal anastom sis I' W

RANKIN Surg Gynec & Obst 1928 xlv11 78 [25]
Postoperative intestinal paresis of phlebitic origin
DUCUING Presse med Par 1928 xxx11 1960

The treatment of ileus E Merchion Khin Wehnschr 1918 vii 701 Acute intestinal obstruction due to impacted gall stones

report of four cases J H Powers Surg Gynec & Obst 1928 Abit 416
Observations on intussusception in childhood E Pure

Deutsche Zischr f Chr 1928 ccvn: 236 Intussusception of the small intestine with special refer

ence to Meckel's diverticulum as a causative factor M McIver New England J Med 1928 excix 453
Inva mation of Meckel's diverticulum followed by in

tussusception of the bowel J Holst Norsh Mag, I Lægevidensk 1928 Ixxxiv 2 9 Chronic intussusception I J Donosan Am J Surh

Triple intussu ception in an elderly woman J \ C

Gangrenous intussusception E J Dovoviv \ \text{im J}
Surg 1928 v 272

A ca e of bursting rupture of the small bowel without e ternal violence L Stegmund Zentralbl f Char 19 8 lv 1105

Double uteer of the duodenum in a patient of twenty years duoden pylarectomy late result L Gruntler. Bull et mém Soc nat de chir 1938 lin 941 [30] The Horskey pyl roplasty in acute perforate I du lenal uteers J W INENOS Sun Gynce & Olist 1928 vl in

1 fenestrated T tube for use in jejuno tomy 1 S Hocoit Minnesota Med 1928 x1 595

Meckel's diverticulum with harmorrhage M G Prier MAN and S J Serger Im J Dis Chill 1928 XXXI

Miscellaneous

Thoracic and abdominal streptothrix C H McIt RAITH W TURNER and J A B HICKS Lancet 1919 CCT1 69 Intrathoracic d rmoids H H Kerr and I O WAR FIFLD Jr Ann Surg 1928 levents 607

SURGERY OF THE ABDOMEN

Abdominal Wall and Peritoneum

Fatra renital chancre of the umbilious M WOLF

New Orleans M & S J 1928 IXX1 211
A case of adenoma of the umbilicus II STEINER Zen tralbl f Gynaek 1927, lt. 2796 Hernial contusion L. Ferdeler J de méd de Bor deaux 1928 cv 635

Interstitual hermia S K BEIGLER and H O BRIEN Wis

Consin VI 1928 XVII 407

Hernie through the histuses of the diaphragm
Sinoy Casop lek česk 1928 kvii 423 467 An unusual case of abdominal herma Short case report W FOERSTER Zentralbl f Chir 1928 ly 656

Hernia of the cul de sac of Douglas DE ROLVILLE Bull Soc d'obst et de gynéc de Par 1928 xvii 635 The traumatic development of inguinal hernix LILR RUCKER Arch f orthop u Unfall Chir 1918 xxvi 257

A traumatic in usual hermia I Bivion Internat J Med & Sur, 1923 xl1 461 The presence of p resistent muellerian ducts in the sacs of inguinal hernix in males A Hills Arch f Llin Chir

1928 cl 129 A stran ulated femoral herma L Rocers Am J Surg 1028 280 Chemical changes in the blood of the dos in experimental

periton tis T G ORR and R L Hapes I Paper Med 1028 xlvm 339

The cl nical pr ture of bile perstonitis E Temesvary Orvosi hetil 1928 levil 129

General p ritin tis w thout apparent perforation of the gall bladder d vel pin in the course of hepatic col c II G LAGOS An Fac de med Umv de Montes deo 1927 TH 681 rágól

Hydatid cholep ritoneum I Dévé I ev de chir Par 1928 xlvn 98 Diplococcic perstomitis in a child H Sanzen Deut ch Ztschr i Chir 1928 ccviii 226

Tuberculous peritoniti G C Burrows Med J & Rec 1028 CUXVIII 273 Appendiceal pentonitis J B Desser Surg Gynec & Obst 1928 xl n 401 Should one drain the abdomen in intervention for acute

peritonitis of appendiceal on in? M Sprozzi I oliclin Rome 1928 xxxv sez prat 10,0

The treatm nt of p rates tis with bacillus coli scrum J KNOPP Zentralbl f Chir 1928 lv 923 Surgical treatment of gener I purulent pent nitis H WHITE J Oklah ma State VI Ass 1928 xx1 246 J WHITE But M Hernia through a mesentench l 1025 H 490 Concerning the great oment m C W M POYNTER

Med Clin N Am 1928 xii 499 Torsion of the great omentum A L de med Univ de Montevideo 1928 x11 A LAMAS An Fac Traumatic abscess of the omentum H K Sowies New Fn land J Med 1928 excit 5 4

Castro Intestinal Tract

A n-w instrumentarium for thoracosc my durin en-ra

In winstrum ntarium for thoracoscopy during opera

A I it I survey of thoracic surgery I ALEXANDER

tion 1 1 Friscit. Wien kin Wehnschr 19 8 zb 236

tion II MAENDL, F KORNITZER and F LEITER IR

Win Ulm Wchnschr 1928 xli, 23

I Michi an State M Soc 1928 XXVII 421

The fate of foreign bodies in the gastro-intestinal camil J GRUENSTEIN Zentralbl f Chir 1028 lv 585

Anatomicopathological changes in the gastro-intestinal tract following lye poisoning E ECKERDY Or osi het ! 1928 Ivni 206

Gastro-enterological wards for gastro-intestinal disea es M I INHORN Med I & Rec 1928 CENT 29 The stomach in paravertebral an esthesia r Tonus and

movements of the wall E FREUDE Arch f Verdauungs Lrankh 1028, xlu 107 The arterial supply of the stomach wall. I Studies of the rabbit stomach T Tame. Arch I japan Chir 1028

V 2 Variations in normal gastric functions and their causes some new experimental clinical observations F 1

APPERLY and L. M SEMMENS Med J Australia 19 8 iı 226 The fractional test meal in normal students a compar ison of results with the e of other observers T L APPER Fractional test meals J McGatra In h J M &

1918 p 588 Diseases of the st mach and duodenum D C But

FOUR J Michigan State M Soc 1918 XVIII 555 The roent en ray in gastric di orders \ Knapp Med & Rec 1928 extru 291

Cardio pasm and concomitant resopha eal d erticulum report of case J H FITZCIBBON J Am M Ass

1928, xc1 644
Misplaced pancreatic anlage in the pylorus M Hass Med kin 1928 xxiv 537 Congenital pyloric stenosis R Hill Illinois M J

1028 hy 214 Congenital pyloric stenosis with special reference to surgical treatm at B I COLLINS J Oklahoma State M 455 10 8 xx1 253

Cas sof omiting in children due to mechan cal obstruc ton at the pylorus H M McClananan and J HENSKE Med Clin N Am 1928 xii 537

The surgical treatment of pylorospasm in children
DREVERMANN Zentralbi f Chir 1928 lv 93
The interpretation of gastric symptoms 1 The mecha

ism of the production of pain II Analysis of cases of pain C BOLTON Lancet o 8 ccuy 1150 1211 1263 Acute d latation of the stomach as a source of diagnostic f dure II PERFENBERGER Zentralbl f Chir 1928

lv 854 The string test for small gastne hæmorrhages M SNOEKS VI amsch gene sk tijdschr 1928 ix 63

The treatment of profuse gastric hamoribages PALCHET Irish J M Sc 928 p 594

A case of gastric tubercules: L Hjort Arsk Mag Lar evidensk o S la tis 20 20

Contribution on the patholo ical histology of the Ma enstras e F BLECHYER and H MORITZ Beitr path Anat u z alle Path 1928 lyny 400

Certain clinical features of jaundice J W Gibbon South M & S 1928 vc 613 Studies on the bile salts in hepatic pathology F

CHABROL H BENARD and M BARIETY Presse med I ar 1928 xxxxx 840

The diastase reaction in the differential diagnosis between hepatitis chole lochus stone and cancer I OSTERGAARD CHRISTENSIN Ugesk f Leger 1928 zc 187

The inconstance of the intradermal cholesterin reaction in the course of hepatic affections and particularly of lithiasis M Lopper F Biver and A Lemane Presse

m d Par 1928 xxxv1 833
Tropical liver abscess acquired in Lingland J C Gil.

ROY But M J 1028 11 520 A case of liver absces G PLFF Muenchen med

Wehnschr 19 8 Ixxv 430
The clinical and pythologicophysi logical significance of (erge imental) removal of the liver F ROSENTHAL

Ligebn d inn Med u Kinderh 1928 vvviii 63 When and when not to operate in acute biliary di case

\ Brown J Lancet 19 8 xlvm 393
Surgical lesions of the biliary tract \ \ \ Sherwood
\text{Ann Surg 19 8 lyvvvin 178} \ [36]

Mucoclasis and surgery of the biliary tract without drainage B O I RIBRAM Zentralbl f Chir 1918 Iv 773 [36]

How the gall bladder fills and empties itself M CHIRAY and I PAVFL Presse med Par 1918 xxxvi 289 [38] Expulsion of its contents as a function of the gall blad der a clinical application W J M Scorr and L R WHITAKER J Am. M As 19 8 xci 9 [38]

A new working hypothesis for clarification of the gall bladder problem k Brovo Arch f klin Chir 19 8 crlix 662 [39]

Aplasia of the gall bladder L SCHMIDT Orvosi hetil 1928 [TRH 323]

1973 1881 323

Death following the oral administration of sodium tetra
13dophenolphthalein N Zerland M J 19 8 8891 230

Cholecystography C J O Brown J College Surg

Au tralasia 1928 1 129

The technique of intraven u chromocholo copy (chol cystokraphy) k Mészíros /entralbl f Chir

(chol cystography) K Misziros /entralbl f Chir 1928 lv 594 Uncertainties i ch lecyst graj by W W BOARDMAN

Im J M Sc 948 cltx 1 383 A case of fatal embolism I llowing pulpation of an in flamed gall I ladder H Dourrille / cntrall) f Ch 1928 I 989

The chronic gall bladder J B DLAVER Canal an M Ass J 1928 X11 666 [39]

Medical therapy of gall bl dder li ease 1 N Bs SE SEN New Orleans M & S J 1928 1 vvi 20 Calculus of the gall blad for mistaken for a calculus of the renal jel 1 L Day and L Jacob J de mél de Bor Jeaux 1928 ev 600

1 h) siol gy and technique of hol cystogastrostomy I BERARD and I Maller (1) J d chir 1928 vxvi 321

(40)
Cholecystect my or cholecysto t my J L DEC stress
Internat J Med & Sur, 1928 xli 426
Menocarcin ma of the gall bladder of a cow W H

FELDMAN J Cancer Re earch 1918 it 185
Rec in truct in of the life pa sages (G Silvin J
College Surg Au tralasia 1925 i 126

College Surg Au tralasia 1928 1 126

Turning the life into the duodenum in a ca e f long standin liftary fistula K Tiebenstalses Zentr lbl

f Chit 1928 1 336

Bil ary intestinal anastomosis for obstructi e jaundice
analysi of 137 con centive cases F 5 Juno and B R
l track Arch Surg 1928 x 1 1 [40]

The technique of removal of stones from the intramural portion of the choledochus A Melnikow Zentralbi f Chir 1928 l. 392
Rupture of the tail of the pancreas from abdominal

contusion fat necrosis C NARIO An Fac de med Univ de Montevideo 192 vii 693

Structural and evolutive variations in the princreas E Retterex Ann danat path 1928 v 97 [41] Acute pancreatius following the ingestion of an excessive amount of atophan M J Petry Brit M J 1928

The roentgenological changes of the stomach and the duodenum in pancreatitis A T Lindblox Acta radiol

1928 14 255

Mumps of the pancreas LOLLER ARBY Schweiz med
Webnicht 1928 but 200

The treatment of pancreatic fistult O HAHN Beitr z klin Chir 1928 cxlin 73

Neute necrosis of the pancreas J W G CRINT Brit
M J 1928 11 518
The indications for drainage of the bile passages in pan

creatic necrosis H LOENEN Zentralbl f Chir 1925 lv

zerati Vortr 1948 rt 436 Med Klin 1928 vxiv 519 Some fundamental characteristis of the spleen and their relation to function W. L. Robinson. Inn. Surg 19 8 rvvvin 333

The surgical anatomy of the splenic vessels C HENSCHEN Schweiz med Wehnschr 1928 lym 164 The spleen in its relating to resonatory function

The spicen in its relati n to respiratory function. I Biver I resse med. I ar 1928 xxxx1 865. The mechanism of rupture of the spicen. Stoler Zentralbl f Chir 1928 Iv 937

Surgery of the spleen and the medicolegal significance of rupture of the spleen M N ROEGHOLT Nederl Tridschr A Ceneek 10 % Ixu 1632

A contribute in to the study of the symptoms of trauma the rupture of the splien G Carajanopollos I resse med Par 1928 xxxvi 994

Rupture of the spleen after artificial induction of malaria

N. G. Harris Lancet 1918 ccv. 500

Tamilial Gaucher's disease R. Mulh vm. Deutsche

Tamilial Gaucher's disease R MUEH in Deutsche med Wehnschr 1928 hv 351 Splenic anaemia and portal thrombosis J C Davies

Lancet 1928 cexv 408
Anomic infarction necrosis and venous thrombos s in capested piece. I MELCHIOR and I Cordes Beitr z kin Chir 1928 cethi 824

Autolysis of the spicen S M Fitch t I W Suith and t C Benjum New Ingland J Med 1928 cycly

The development and progress of surgery of the pleen I BEER Ann Surg 1978 IXXXVIII 335
Splenectomy W I Lower and R P Ball Ann

Splenectomy W I Lower and R P Ball. Ann Sur g 928 Exercit 404
The surfaced technique of plenectomy with presentate a of a new inci ion A D Bes 35. Ann Surg 1928 Exercit

Splencetomy in I sypt J C Bloom ood Ann Surgers lexxviii 420

ors leaven 420
Splenect my for trauma J I Connors Ann Surp.

Di cases of children benefited by splenectomy R I J
LENEDY J Am M Ass 10 8 xc1 874
Case of splenectomy for purpura hamorrhagica

H II C GREGORY Brit J Child Dis 1929 XTV 180 A review of 500 splenectomies with special reference to mortality and end results W J Majo Ann Surg 1928 Iveryin 400

I emarks on chronic ailments of the colin 1 H Mr Ss \at \1 \las 10 9 xx 113 Renarks on constipation L I Consumit Mel I & Rec 1018 CXXVIII 281

Chronic diarrhora in adults I S. HNEYFR Med J & Rec 1918 CKTVIII 186

One hundred fifty five cases of chronic mucous colitis M Surth South M J 1928 XXI 602 Chronic colitis and its effects \ \ William South

M I 1028 XXI 600 The treatment of chronic polymibrobian colitis in chil

dren A I CAWADIAS Brit J Child Dis 1928 xxs

The surgical treatment of diverticulities K W Mov SARRAT Brit M J 1928 il 41 130) Multiple adenomata of colon (polyposis) H F GRA HEM Am I Surg 1928 v 254

Carcinoma of the colon II hat PENANY Restr P klin Chir 1928 cxlu 784 Subphrenic collection of gas in colic fistula R. LOBET and K Issisveuser Muenchen med Wchnschr 1928

lext 530 Interposition of a loop of ileum to repair defects in the col n II B STONE Ann Surg 1928 INNYUH COT

Prel minary preparation of patient for col storny I DRUFER Illinois M J 1928 hv 220 Th Mikalicz operation for resection of the colon

SISTRUAL Ann Surg 1918 INTENTION 50 Apr pos de la colectomie pour cancer T De MARTEL Pr c Roy Soc Med Lond 1928 xti 180

Temporary interposition of the colon 1 SCHLANCER Semana méd 1029 TTXV 1382

Retrograde intub tion of the cocum H C Horr Am Roentgenol 1028 xx 226

Primary typhlitis and peritonitis Ricaro Lyon chir 1028 XXV 470 Contribution on diverticulum of the append t IRNOLD Muenchen med Wohns hr 1928 lext 344

Diverticulosis of the appendix and pseudomyroma peritoner A I GARDHAM C C CHOICE and M RANDALL Brit J Surg 1928 xv1 62 Roentgen diagnosis of the appendix and its value

The blood picture in the differential diagnosis of infan tile appendicitis P Kiss and I Traori Oriosi hetil

028 IXX 1 181 Traumatic appendicitis W C McGeary Internat

J Med & Surg 1928 xl1 440 1 case of append citis with unusu I features H MORTEN EN and L BRAY Med J Australia 1928 11

Appendicitis during measles T Rost Zentralb! f Chir 1923 lv 905 Chill and appendicitis M Martens Muenchen med

Wehnsehr 1928 Lxxv 335 Gas gan rene in appendicitis LAMPRECHY Z ntralbl

f Chir 1928 lv 989 Arch f kin Chir 1928 cl 328
Mortality fact is in acute appendic tis E L FLIASON \nn Surg 1928 lxxxviii, 65 and L K TERGUSON

In an nof brome in place of the appendix W Miss CHER Schweiz med Wchnichr 1928 lvn 286 Carcinoma with mucocele of the appendix Toppi G California & West Med 1028 xxix 186

Some points of technique in appendectomy a transverse incision I Nicholson Semana med 928 xxxv 1369 Volvulous of the surmoid flexure on the basis of a devel opmental deformity te a reduplication of the descending colon and flexure J ZAORSKI Pol ki prz lad chir 1028 VI 58

Paris thir to 8 xx or

The modern standard of thoron bress in rectal error inations J F MONTAGE Med J & Rec 19.3 cmm.

Foreign bodies in the rectum R. Hungion Deutsche med Webnschr 1928 liv 476

Some considerations upon anorectal pathol gy bled ing harmorrhoids R Litings Santos Folks med 1028 LK 116 The treatment of hamorrhoids with injections of alco

hol B I LDERING Deutsche med Wehnschr 10 & his

The Whitehead deformity D Swith I Am M Ass 1028 SCI S O Rectal stricture in gynecolatical di eases R Jacan

MOVETS Deutsche Lische f Chir 1029 ccviii 263 Con rehea of the rectum in the female | Day trees Dermat Wehnschr 1028 Isravi 428 I case of myoma recti W F SURRIONDE Ned !

Tirlschr v (reneesk, 1918 fran 648 Carcinoma of the rectum L L HANDLENGS 1 m :

VI J 1928 liv 229 The carly discusses of cancer of the colon and return I HIRST T W TURNER and J F VENABLES Lancet

1029 CCX1 12 9 The early diagnosis of carcinoma of the colon and rectum Sig W I DEC WHEELER Insh J M Sc o

Docu sion on the early diagnosis of caremora I th rectum and colon SIR W I DEC WHEELER C DIXE H & G Hopeson 1 1 HERST and others Proc Ray Soc Med Lond 1928 XVI 1543

Cancer of the rectum radical and palliative operate oscase r ports R L MURDOCH | Oklahoma State M 454 1018 XAI 541 Monatsschr f Ge-Vestibular anus ROSENSTEIN

burtsh u Cynaek 1928 lexum 298 336 Chronic constipation due t congenital steno is of the anal canal T C Hill and I P Hayden New Fn land 1 Med to28 excit 552

Liver Gall Bladder Pancress and Spleen

Stream lines in the portal vent their aff sence on the selective di tribution of blood in the liver B M Dick. Ed oburgh M J 1928 xxxv 533

The functional examination of the liver before surgical anasthesia N Fresspacer and H Walter J de chi

028 YYXU 13 The brom ulphalem test in early disease of the h et 1. D FRASER Lancet 1928 ccev bea

Liver function as determined by bromsulphal in in seventy six cases A M SCRBy and L BLOCH Am. J Med Sc 19 8 classi 367

Bromsulph lein used in the liver function test in sureers of the bile pass ges I HECGE Norsk Mag f Lege vidensk 1028 laxxiv 254 Stud s in patholog cal phy tology the actual limits of hepatic tosufficiency M Garnier I resse med Par

1025 XXXVI 077 Detoxication by the h er H R HARROWER Med.]

& Rec 028 extru 230 The clin cal appl cation of the patholog cal phys ol sy of the e ternal secretion f the liver and pancreas L. W.

McClure im J Med Sc 928 clare, 309 The path logy and treatment of typhoid carners It Bill formation secret on of bile and their dependency on m dication R KUEHN Frgebn d ann Med. 14-Kinderh 1928 TTUI 74

The management of uterine mali, nancies at the Radium Institute of the University of Paris G T Lack South M T 1928 XX1 505

Methods of combating the infectious complications of radium therapy of uterine cancer E Walton Presse

m(d Par 1028 xxxv1 1061 Pseudocyst of the uterus following irradiation for portio carcinoma II FACRBER Monatsschr f Geburt h u

Gynaek 1928 June 45

Carcinosarcoma of the uterus I SCHIFFMANN Monatsschr f Geburtsh u Gynaek 1028 levem 28 I mixed tumor of the uterus L I als Monatsschr f

Geburtsh u Gynaek 10 8 lexvin 2 0 Mixed tumors of the cervix uteri sarcoma botryoides with a report of two cases D M Cox and W I BENIS CHEL. Am J Obst & Gynec 1928 vvi 28 Laposibromyosarcoma of the uterus \ SIRINGER

Zentralbl f Connack 1028 lu 806 An extraperatoneal modification of the Wertheim opera tion I ORTHNER Wien klin Wchnschr 1928 xli 30 Va mal hysterectomy P Petit Am J Sur, 1928 v 252

Adnexal and Perluterine Conditions

Hernia into the broad hament W. F. Dignin Brit M] 1928 n 528 The presence of endometrium in the tub I SZIMEN

Zentralbl f Gynael 1928 lu 812

Tubal endometrissis co-existin with an epithelioma of the ovary metrorrha in HAMANT and MOSINGIR Bull Soc d'obst et de gynic de Par 1028 xvit 600

The spontaneous opening of a cl sed tube verifie i at iaparotomy C ROSTYBERGER Zentralbl f (ypack 1928 Ittli 10 0

Three cases of bilateral valvular hydrosalpinx Gos ET I EDOU'Y LEBARD and BECLERE Bull 500 dol st et le gyn(c de Par 1028 van 600

Observations on the etiology and surgical treatment of calpingo-cophoritis E L HENDERSON Internat | Med & Surg 1028 th 438

The histogenesis of primary carcinoma of the fall pian tube I Greens Monatsschr f Geburch u Gynael 1928 Itux 53

The structure of the mammahan and human ova. With a historical and be graphical introduction in the German language by B Ottow K E VON BARR 1927 Leipzig

Chnical studies with the ovarian hormone MURKEN Zentralbl f Gynaek 1928 lu 356

The female sex hormone L IRAKNEEL Deutsche med Wehn chr 19 7 lm 2107 2154

Demonstration of the female sex hormone in the urine particula ly in the u me of pregnant women B ZONLER At n Wehnschr 1928 11 485
The femal sex hormone IN Possil le significance of the

r sient sa mal spread reaction in the male blood R T IRINA M A GOLDBERGER and L C McGEE Am J Obrt & Genec 1928 xt. 38

The female sex hormone in nformon 11 Further ex periments on its action on the mammary pland menfor m n as the normal activating hormone F I AQUITE B RCHARDT I DINCEMAN F and S I DE JINGH D ut che med Wehnschr 1928 1 46.5

Differences in the restance f the male and female set glands. If V KLEIN Arch f path Anat 1927 celvis

I reign cells in the ovary a further c ntributi n on the ubject of embryonic rest H O LELMAN Arch I path heat 1927 celum 2 4

Sympathicotropic cells in the ovaries and their neuro crine function also a contribution to the question of the interstitial cells of the testis L BERGER Arch f path Anat 1928 celvu 433

The histology of the corpus luteum Specific fibrils of the luteum cells Dark luteum cells Retrogression of the lu teum cells after abortion and pregnancy h lands Ztschr f Geburtsh u Gynack 1025 vcm 220

The retrogressive changes of the corpus luteum of the

rabbit M Iwara Japan J Med Sc 1927 1 97 Lezema and disturbances of the ovaries P Szego Gyó, 34 zat 1928 ltvm 306

A report of three cases of struma ovarn J M FRANKER and M LEBERER Am J Obst & Gynec 19 8 xvi 367 A calcified ovary with ossification H KAMNIKER

Zentralbl f Gynaek 1928 ln 1 60
Bilateral ovarian tumor W ROSFNSTEIN Monatsschr

Geburtsh u Gynaek 19 8 kxvuii 302 340 Teratoma of the ovary F B Doyle \m J Obst & Gynec 19 8 xv1 446

The symptomatology of ovarian cancer FLEURFAT Bull Sou d'obst et de gynée de Par 1928 xvn 678 Spontaneous rupture of an ovarian carcinoma with severe harmorrhage into the peritoneal cavity L ANFAENGER Zentralbi i Gynack 1027 ii 3230 A fibroma (spindle cell sarcoma?) in the ovary P

FREUDENTHAL Zischr f Krebsforsch 1928 xxvi 414

External Genitalia

an abnormal type of hymen R LEHMAN Ztschr f d ges genicht! Med 10 8 x1 91 Studies on the vaginal secretion H MIURA LYOTO

TEADMIGNED ZASSBI 1028 II 1 Study s on the osmotic pressure of the vaginal contents WITTENBECK Arch f Gynaek 1029 CXXXIII 103

A case of transverse sentum formation of the vagina P BRALLT and C ROCHARD Bull Soc dobst et de vnéc de Par 1928 vvu 621

A rare cause for vaginal atresia S HEILBROWN Muenchen med Wehnschr 1928 lvvv 560 The use of the sigmoid in plastic operations for concenital

atre is of the vaging 1 Ruge Monatsschr f Gehurtsh u (ynaek 10 9 lygynt 313 The formation of an artificial value R T vox JASCHAE

Zentralbl f Cynaek 1928 lii 735 Severe vaccinitis due to cortus with conception preven

tive A MEDERMEYER Zentralbl f Gynack 1928 hu 833 Specific vaginiti in chillren R H Middleton Atlan tic M J 19 8 vvu 947 Va malmyc ses L l Heard Texas State I M 1928

XXIX 357 I rimary diphtheria of the vagina Michel Arch f Gynaek 1917 CTT11 343

Continu us prigation of the agina vulva and rectum clinical physiological and pharmacol gical observations

R JOACHIMOVITS and J SCHWARZ Wien klin Wehnschr 1928 11 2 9

Vaginal dathermy and a means of increasing its eff-ci no. K KANSER Muenchen med Wehnschr 1928 lx = 347 a rul o aginal eyet devel ping in the remains of

Gartner's canal De ROUVILLE Bull for dobst et de gynéc de Par 19 9 x 11 64 The cure of an intractable ve icovaginal fistula by the

use of a pedicled mu cle flap a new concept J II GIRLOCK Surge Cynec & Ob t 1928 vivil 255 1451 t ery mall hidden varicose ulcer of the vagina H

HINSELMANN Monat schr f Geburtsh u Cynael 1928 1 xvm 2 8

I olycythæmia foli win splenectomy for spl nicanæmia W AUERTAU B itr z klin Chir 1925 cxlu 812 Miscaliansons

Some functional tests and their significance E. 1 Cas HAV New England J Med 19 8 excir 1 1421 The value of the rectal tube in operations for acute abdominal cond tions II 1 PRICE Ann burg 1928 ITTXYIII 5S2

The acute abdomen I Basara Folha med 1029 ix

Ab forminal pain in children with upper respirat ry in fection H B HAMILTON Med Clin N Am 1028 xu

Hidden perforations Unnutria Rea med de Chile 1028 111 615 The therapy of severe intraperit neal hemorrhage G BLETTLER treb f klin Chir 1928 cl 93

Subphrenic abscesses and their treatment F S CASTILLON Ars med 1028 in 101 A case of subphrenic abscess hitulizing into the lun-R. PAGING and A D ISTRIA Reforms med took the

000 Drainage of the free peritoneal cavity W Normal

1rch f Llin Chir 2028 cl 161 I contribution on the differential diagn sis of turn is in the left hypochondrum R BOLLER Klin Wchasche 1925 VII 495

Retroperitoneal lipoma Karz Beitr z klin Chr. 1028 Cxlu S64

Retroperatoreal mesodermal tumors, with a contribution on their morphogenesis \ Hrist \ten f kin Ch 1028 cl 251 Mucogelatinous infiltration of the perit neal cavity s cesting a tumor of the carrier II (su nice Bull et min

Soc nat de chir 1928 liv 1920

GY NECOFORY

Ilterus

The different types and phases of the utenne muscle P STRISSMIN Med Klin 1928 XVI 321 363 Culture of end metrial to sue K HERY Zentralbl f

Cynack 1925 lu 939 Uterus didelphys L M Miles I I ancet 1928 xlvm 418

Changes in the position of the uterus E Sciences \rch f (\n \ 1928 cvv m 345

The ext tence of a r flex of the round ligament and its utilizati n in the treatm nt of retroversi n F I IMIANI TOFF Bruxelles med 1028 var 1310 Olshausen ope att n for retroversion f th uterus D \

1m J Obst & Cynec 1928 vi 11 I case I torse n of the cervis II JENTTER Tentralbi f Cynack 1028 lp 1074 Hastic surg ry of the endocervix H H Science J

College Sur, Australasia 1024 1 103 Globular sw llings in the cp thelium f the white field of the tran itim zone of the p rti uten. II HIN EIMANN

Zentralbl f Cynaek 19 9 h 1244 Met osalom ograpi v ADI TRIA Rad (1 m d 10 %

Roentgenol) ical exam nation of the uterus and tubes aft r intra uterine njection of l p odol (Ci rri. Bull et mem Soc nat d chir q 8 h 005

The dia n stic u e f intra uterine i dizel il injecti n combined with the \ rays as compared with p ruterine CO2 insufflation a study base I on sixty si ca es of tubal

obstruction I C Ribri Rad I go 1028 1 115 16 Hysteroscopy a new method of examin t GAUSS Verhand d phys med & s il ch zu Nue zi 1917 lu 99 105

B manhemorrha sof the ut rus H Schurrz I Am M As 1928 XCI 955 Copho ogeni and psychog a cuterin bleeding ROBINSIN N York State J M 1918 XV 1 010

The dangers of uterine cu ettane H RUNGE Dut che med Webnschr 1929 lv 65 I ebellious cer ic tis from costs high in the canal R I

Dickinson Im J Obst & Gynec of the it [43]
Tuber ul sis of the utenne cervix J C Anuman and O I RESTINI Bull Soc d'obst et de gynée de Par 19 8

Stra gulate a fith throms pedicl. R Kerrig Bull Soc dob t et d genée de la 1928 v 11 66;

Coincidence of thro I tumor and exophthalm go ! ! with the report of a case cured by Xr y castrati n 1 I INDE BERG Am J Olist & Gynec 1029 XVI 425 Fridmetrioma J Storz Casop 1th česk 19 8 live

Three cases of myoma with fever difficulties in dri no > I Goptewski Bull Soc d'obst et de gynéc de lar 1028 TVH 643 Red myomata of the uterus P Burco Ann. ital di

chir 1928 vii 635 The treatment of myoma H Denter Ztschr f

Geburtsh u Gynaek 1928 zczi 566 Is the present day operative treatment for myoma and the hæ norrhagic metropathi s justical le C J Garo Med Klin 1028 x 1v 161

The indication f r myomectomy in uterine fibromata i Bazy Bull et mem Soc nat de chir 1929 lo 1001 The dia no is of leucoplakia of the portio H. Hoset wax Zentralbi f Gynack 1918 in 1373
Leucoplakia of the cervix H. Hissethan Wien Ma

Wehnschr 1928 al 515 Two cl nically observed cases of chori nepith 1 mis

VON MINULICZ RADECKI Ztschr f Gebu t h u G mack 1927 YELL 2 5 23 238 Contril ution to the histological study of the margithe lioms C SUPERBI RIV ital digi ec 1928 1 309 Cancer of the uterus M WEINER Colora I Vice

1028 XXV 3 6 Squam us celled carcinoma f the certix with mu as

degenerati n W ODE THAL Montasschr f Geburt.h u (ynaek 1928 lxxviii 294 The devel pment of cancer of the cervix al ng the lym

REEB Bull Soc dobst et d gyn c de hat c ve el 919 u 667

The glycog n content of uterine carcinomata and of th atypical squam us cell proliferations in the region of the external os preliminary report W Lam Zischr

G burtsh u Gynaek. 928 cm 356

Th treatment of cancer of the uterine cervi by radia tions A GUNSETT B Il Soc d'obst et de gynéc de Par 1919 VII 571 Pemarks on and observations f the treatment of certi

arcinomata by radiant energy & Bocste sxi Ginekol polska rga va 65 18 The relation between tructure and prognos sin cervical

a cinoma under radiatio treatment W P HEALY and M CLEER Im J Obst & Gyn c 1929 xv1 15 143

The value of the sedimentation test in pregnancy com pheated by tuberculosis I Suess Wien med Wehnschr 1927 IXXVII 1166 1291

a case of tolerance of a gravid duplex uterus to curettage of the non gravid half B KAMINSKY Zentralbl f

Gynaek 19 8 ln 967 The diagnosis of extra uterine pregnancy INANOFF Monateschr f Geburtsh u Gynaek 1029

lxxix 26 The diagnosis and treatment of extra uterine pregnancy in the first months I MERCICH Wien klin Wehnschr

1019 Tlt 385 Some cales of extra uterine pregnancy P BURGER Bull Soc d'obst et de ganée de l'ar 1928 van 684

R entgenography in extra uterine pregnancy GABASTOU and I HARGLINDEGLY Bull Soc dobst et de gynée de Par 1928 TVH 686

Retention of the dead fetus in extra uterine pregnancy I COURTOIS Presse med Par 1928 TYTEL 1098 Is the white streak reaction in the Muck adrenalin te t of value in the differential diagnosis between tubal preg

nancy and adneral inflammation? P KUHLMAN Mon atsechr f Gynack 1928 lxxviii 257
Two cases of is lated tors: n f the pedicle of gravil tubes 1 Mandelstann Zentralbi f Gynaek 1928 in

1000 Intra uterine pregnancy following operation for bilateral

tubal pregnancy G BURCHIARD Zentralbl i Gynack 1028 ln 10 o I case of secondary abdominal pregnancy B H Gorr

Am J Obst & Gynec 10 8 xv1 418 I regnancy following the dem instration of the closur of both tubes by hy terosalpingography M P I tCker

and I J WHITEHEAD Am J Obst & Gynec 928 VA 3 2 Cervical stenosis after the use of I ilhos caustic subsequent pre-nancy casarean section Brinds and Drvf Bull Soc dobst et de gynée de Par 1928 vou

On what is the length of pregnancy d pen lent? 1 (HACEDORN and A L HAGEDOORN Nederl Tiplschr v

Geneesk 19 8 lvvn 1,92 Trenatal care T 5 Martin Nel raska State M J 1025 XIII 325

I renatal care and its effects on the growth and devel ; ment o the laby B M TALLOR South M J 1928

Cardiac functi n and pregnancy H FUELOGER Monat schr I Geburtsh u Cynaek 1928 Ixxviii 395 Studies in the hydrogen metal oh in during mi instruction and pregnancy II Rupp Zentralbl f Gynaek 1928 li 1110

The regulation of chemical neutral ty in the body during pregnancy O Bokelmann and J Lorner Atschr f Geburtsh u (ynack 19 9 xcm 8

The chemical frm f the erum alcium during per nancy III The rel tions between m ther and fetus () Bokethern ad I Bock Steh f Cynaek 19 8 cresum

Contribute n't the study I the le er luring pregn nes Il Watter and J A Dr Withhardter Cynec et b t 1928 Xvin 12

Studie in the li er functi n during p egnan) K Henne Zentralt I Canack 1928 ln 291 funct nal changes in the skin during pregnancy (insen

ille per p at n) Sidorow Zentralbl f (ynael, 1028 1006 The h t l g cal changes in the parametrium during te nancy TR in at Jentrall I Canack gas lu 10 2

Asthmapathia gravidarum G M Schrollianska Monatsschr f Gynaek 1024 lyvviii 260 The nervous disturbances during pregnancy and malthu

supplem G MINGAZZINI Verhandl d l internat Kong I Sexualforsch 1028 H 147 Sodium salicylate in pregnancy I I ICHNER Cas in

lék cesk 1028 lyvu 431

Prenatal syphilis effects of antepartum treatment C H Marshall J Am M Ass 1928 vci ,02 Sephritis in pregnancy J Quirov and L Roses WASSER Bull Soc dobst et de gynée de Par 1928

Toxic injuries to the musculature of the uterus I KOLR NER Monatsschr [Geburtsh u Gynack 10 8 lexum 268

Observations on the chemistry of the blood and urine in the toxemias of pregnancy J S Green and \
Kritger Med J Australia 10 8 in 322 Toxicoses of pregnancy with the blood picture of per

meious anemia H Offergeld Monatsschr f Geburtsh u Gynack 1026 hy 24,

The etiological su mificance of lowered blood sugar values in the comiting of premancy P Titts and P Dodos Im I Ob t & Gynec 1028 xvi 00 The degree of toxicity and the treatment of hyperemesi gravidarum E Bigsoni Zentralbi f Gynack 1028 lu

The treatment of the toxemia of pregnancy Γ 1 MURPHY Nebraska State M J 1928 xm 323 Latent sepsis in pregnancy toxemia F

Obst & Gynace Brit Emp 1928 xxxv 307 [48]
The early recognition and treatment of pre eclamptic oversia R D Mussey J Med Cincinnati 1928 ix

The symptomology of the pre-eclamptic stage and the recognition of toxic ordens of the lung I KLAPTEN Zentralbl f Gynael, 1028 ln 1114

The management of eclamptogenic toxemia I II Falls Illinois VI J 1928 liv 2 4
Lelampsia without spasms O SAITZ I ozhledy v chir a

gynack 102 vi 266 The treatment of eclampsia J Santer Wien klin

Wehnschr 1928 xli 564 The treatment of eclamp is and allied conditions. I HARRIS VIRGINIA M Month 1928 lv 409 Abortion C. H. LEPTON Virginia M. Month. 1928 Iv

Abortion W M Borowski Ginekol polska 1927 to

The expective treatment of febrile abortion C CLAC The charcoal treatment of febrile allortions placental

polyps and puerperal enfometritis W BENTRIN Zentralbl f Gynack 1928 ln 858 symmetrical gangrene of both feet in febrile abortion and simultaneous a liministration of ganergen

Zentralbl f Cynaek 1928 ln 620 The sequely of abortion \ Lzizewicz Ginekel

1 l ka 1927 vi 1217 1240 Aborts a from neurological in I cations K Orzection LI G nekol pol ka 192 11 1 57 1150

Criminal operations between the seventh and eighth m nths of pregnancy H KEMKES Zentralbl f Cynack 1924 ln 1913 Severe erosion of the vagina due t the u e of persil

and an abortifacient & Dires. Irch f Gynaek 192 Ophthalmological indications for the interrupti n of

pregnance I SEN INC Cinckel pol ka 192 VI 1111 1 18

Primary carcinoma of the va ana an lats incidence at the synerclogical clinic at the University of Lembers, GERBIES Ginekol polska 192 11 59 88

The value of secondary penneul suture 1 FILEP Orvo thetal to 8 lxxn xxz

Miscellaneous

Handbook of gynecology Ld III The men trual cycle in the female and its di tu bances Vol I | Vert 1928 Munich Bergmann

The menstrual cycle after operations & CLAUBERG Monatsschr f Geburtsh u Cynaek 19 9 Irvini 41
Studies by m ans of the M lerhald n reacts n of the retrocressi e cha es in the end scrine glan Is in the bleed

ing of puberty and the climacterium. L Malayan 1 er mentforsch 1925 17 306

Menstrual disturbances & LEISCHER and O HIR CH TABOR D utsche med Wchnschr 1928 hv 46 Aschner's views on the pathonenic si mifiance of hypo menorth ea in Leneral practice S Pices Zentralbi f Gynack 1928 in 885

Menorrhagia following incomplete exhibition of the uterine mucosa II Baniecki Zentralbl f Gynaek 1928

In 955 Menstruation into the bladder from a ve c aginal fistula due to childbarth mjury A H ALDRII GE Am J

Obst & Cynec 1048 XVI 430 Some pre menopause symptom B W O JOHNSON

kentucky M J 1028 1111 472 I new med care for the symptoms of the climacteric B WARTLER GS6_34 zat 1028 [vs1] 360

Climacteric complaints O BURNINKEL Med Klin 1929 731 137 P yehic chan es following roentgen ca trata n in the

climacteric II D vov Witzlebey Arch I Isychiat 1023 PXXIII 410

Hermaphrodit in a report of two case \ CYLLENS ARD Hygiea 928 xc 190

Tumor formation of the sex glands in external femini e p eud hermaphroditi m E Cori e Bi tr z kl n Cl ir 1918 cxlii 8 2 Compl te con enital aplasm of b th ovari s infantile

gen talia and male habitus W Bur Zentrall I f (ynaek 1927 li 3241

Some pla tic operations in the f male genital tract R MORRALL J College Surg Australa in 19 4 1 8

The repair of the pelvic floor L 1 Maguine] Coll Surg Australasia 1928 1 95 Contributions on roentien logy of the pelus P I serre Der ville Bull Soc d obst et de gynée de l'ar 1928 212 400 trute conditions in the lower abdomen of the femal

W W CHIPMAN Best M J 1028 H 475 Acute pelvic infects as in women I G Dilber Internat J Med & Surg 1928 xl: 430

The effects and mechanism of gynecolorical mainte VETTIR Gynéc et obst 1928 XVIII 154. The diagno is of gonorrhora in the female by cultural

methods L Kovrap Klin Wchnschr 10 8 vii 501 Syphilis as a complication of gonococcic processes () Castano Gynic et ob t 1928 xviii 119

Rare types of tuberculus: of the female generalia C LAUTER Zentralbl f Gypack, 1918 ln 1148 Irradiation for tuberculosis of the female genitalia (

WAGNER Strahlentherapie 19 8 XXVIII, 759 (ynecological cond to us an l internal medicine P STRE SHENN Zischr f zerzil Fortbild 19 9 xm 20 ;

Stud es in the intravenous use of urotropin in gyare 1/7 1 Szurzec 1 olska gaz lek 1027 11 0 9 The therapeutic use of the so-called I ffer solution

e pecially in gynecology L JAEGER Med klin 19 8 X111 104 lut hemotherapy in gynecological condition R C Hy Czestpiy Zentralbi f Gynack 19 7 li 2.01

Re-infusion or spontaneous res rption in cases f intra abdominal hamorrha es W Lierr r Zentralbi f Gynaek. 19 9 In 1247 I rotein (milk) therapy of pelvic inflammati n report

of the 1 rst 100 cases \ G FALLS | \at \ 155 19 Retro-utenne cy t apparently of G riner on in L

(ERY and \ Haws Bull Soc d obst et degyn c. de Pa 1025 1712 650

Ra lium and its use in gynecology J \ \leics \cong Ln land J Med 1928 exc1 258 I diffuse pelvic end m tri ma constriction the ureters 1 H Marse and I H Perry Am J Obst & Gynce

1028 Y 1 49 F br blastic sarcoma implanted in Henle's ligament ALTHABE and G Di PAOLO Bull Soc dob t et de grand

de lar 1928 x 688 is me pr bl ms in oper tive gynec logy O Massreld

(16 14 zat 1028 levi 1 200

OBSTETRICS

I regnancy and Its Complications

The uterine cervix its structure and it functi a durin

preamancy labor and the pu rp rium. H Stieve to Len zig tkad Verlag ges mb H The silver te t of La e and Heu r during pregnancy C HOLTFRMANN Ztschr f Geburtsh u Gynaek

The canthandal reaction and preun nes R Spiegler Monatsschr f Geburtsh u Gyn ek 928 1 102 4 The use of lipis fol in the early dia n isi of pregn nc) M I RICLER and L J WHITEHEAD J Mi han State M 5 c 1928 TYVII 559 Indinized oil in the dia no is of pregnancy If \

MILLER and D B MARTINEZ Radiology 9 S The st niticance of the sugar toler nee test 1 the d g nosis of pregnancy Bokstrany Ztschr f Gel urtsh u Cynack 928 cm 633

The ser diagn sis of pregnancy G K F Scholth Zt chr f Geturish u Gynack 1929 veil 501 The e of gical d en s s of pregnancy SCHULTZE Zischr f Geburt h u Gynack 1918 xt n

Contribute n on the serology of early pre-mance RAEFE BERG Ztschr f G burtsh u Gynack 19 8

an wad n the diagnos f pregnancy based on the ero-elect ical rat n h huvigai Okayama Igakka 7a shi 1928 |

Dill culty in the dagnosis of pregnancy in cases with endocrine dist bance (my tredema) k Zimmermans Monat chr f (b rt h u Gynt L 929 ft ix I Interferometra studi s of the blood in the diagnos

pr ninc) and uterine ca cinom M Figer F Grow RIN ni E KLENCZYNSKI (nekol pilka 191 11 60 010

(50)

Repeated transverse presentation in a cordiform uterus uterine tetany cresarean section Deveze Bull Soc

dobst et de gynic de lar 1918 vin 644 A sli htly banal indication for exsarean section Pous Bull Soc d'obst et de gynéc de Par 1928 TVII 633 Indications and limitations of casarean section F

Sigh Nebraska State M I 1928 xiii 328 \ case of low createan section in an aged primipata

I RUMINSHOLZ HAMANT and LEVY Bull Soc dubst et de gyn c de Par 1928 vin 651 lortes operation DELPEYROU Bull Soc dobst et de

gynéc de Par 1028 Tyll 624 Placenta prævia in the cæsarean operation L RAZUTTI Rey de med y cirug Caracas 1929 x1, 275

Utero abdominal ii tula followin casarean section J W Price Kentucky M J 1928 xxx1 475 Remarks with regards t Martin's warning against the

pelvic floor incision \ Rieck Zentralbl f Gynaek 1928 lu 369

Total rupture of the permeum L JoB Bull Soc d of st et de gynéc de Par 1929 vin 66 t case of paraplegia during labor F Stutter 7tschr

f Ceburtsh u Cynack 1928 TCH 136 Intrapartum hamorrha e from a ruptured varicosity in the vault of the vagina R L Burgerr Am J Ob t &

Gynec 1028 XVI 413 I ulling on the cor I in expression of the placenta I

NICHS Zentralbl f Gynaek 1928 lu 860 case of placenta accreta L LRAUL Zentralbl I Greack rozy lu 8 %

The anatomy genesis and clinical considerations of placents accreta J \ NATHANSON Am J Obst & Ganec 1918 xvi 44

Puerperlum and Its Complications

The mana ement of the postpartum atonic uteru HUESSY S hweiz med Wehnschr 1928 Ivin 313 Thyroid therapy in retention of milk I KRALL Zentrall I f (ynaek 1928 lu 8 3

I rompt alleviation. I denressive postpartum symptoms with varian and thyroid extracts G I and FLLDT Med

tev 1929 tly t latal p tpartum hamorrhage from a ruptured vari ity in the ul le sac of Douglas F C Lion Jr Am J Obst & Gyne 1929 xv1 436

I tpartum care with special reference to infections D D ktw. Nebra ka State M J 1928 xiii 331

Bacterial gical find n.s in the blood in puerperal fever k Somnen Zentralbi f Gynaek 1929 in 942 The oral and parti ularly the odontogenic infections of

the puerperal uterus H Sacus Zentralbl f Gyna k 1925 lit 99 The dir no is an I treatment of puerperal tetanus I

R mistres Zentralbl f Cynaek 1928 li 13 4 Uterine tenlizati n W O \ SHERMAN Surg Gynec & Olst 10 8 xl ii 115

Act e of puer eral pent in ti De A MERS and Digos NET Bull Soc I obst et de gyn c 1 lar 928 xxu 600 karer types I puerperal breast infe to as (with s m terrarks or an epidemic of temthigus) II Naujok treh f Cynael 9 4 execut

Newborn

C mparati e tudi s of the d sel pment of the child the first months of life G Dietricii Arch f (ynt 1 1929 c 35 1 80 The car of the n wl to bate 1 W HACKE

Vebri ka state M J 1928 xiii 331

The physiology care and feeding of the newborn in cluding nutritional disturbances of breast fel children TH VOY JASCHLE 1927 Munich Bergmann I study of the organization for the protection of young

children in lans and the department of the Seine VI

It jay I ressemed Par 1928 xxxvi 1034 The dia nosis of the uniovular character of twin Strues Arch f Gynaek 1928 creent 284

The diagnosis of unjoyular newborn twins from similari ties D Rostes Arch f Gynaek 1929 cvvviii 841 Computing the frequency of uniovular twins WEINBERG Arch I Gynaek 19 8 cramu So

Some factors in the infant mortality problem HERRIAN \ lork State J M 1928 CIVIL 1087 \ medicosocial study of the mortality among young

infants \ \ \A\ Luye\ Presse med Par 1928 vevi 1034

The treatment of asphysia neonatorum by the injection of alpha lobeline into the umbilical vem R A Wilson 1m | Obst & Gynec 10 8 xv1 370

A case of root paralysis of the brachial plexus in a new born child ROLME. Buil Soc d'obst et de gyn'c de l'ar 10 9 xv11 636

Clavi ular fracture in the newborn occurring in spon taneous labor K ADLER Zentralbl f (synaek 1928 la

The etiology of congenital genu recurvatum in the new born A Sanders Monatsschr f Geburtsch u Gynaek 1928 Itsts 68

Studies in the cal ium and phosphoru content of the blood serum of infants O ULMER and E HILLENBERG Arch f Kinderh 1028 lxxxiii 106 Umbilical hamorrha e in a newborn infant treated by

blood transfusion \(\Gamma\) [I topourst Zentralbl I Gynack 10 % lu oór The rôle of harmolysis in jaundice of the newl orn infant Mck Mirchell Am J Di Child 1928 xxxx1 491

The question of multiple amniogenic d formities S M LIEN Arch f Gynaek 1928 CXXXII 833
Connental attests of the ce ophagus with tracheal esophageal Istula II R Mryseli Am J Ol t &

Miscellaneous

(\nec 1028 X\1 432

Some al tetrical matters Tellerr > Zealand M I 1925 YEVE Prenatal clime and obstetrical clime of Marseilles C

l stior and J I Daveo Bul! Soc d obst et de gyn c le l'ar 10 % xvii 629 Textbook of mid vifery Ed 16 B 5 SCHLLTZE 1028

Leipzi, Ingelmann Outlines of a German National midwifery law S HAMMERSCHLAG and I ROTT Arch f soz Hyg u

Demost 1928 ill 15 II iw the general practiti ner can do better obstetrics

I CREMPLER South M & 5 1928 to 606 The c i is in the battle against the lowered lirth rate

Muen hen med Wehnschr 1928 letty 3 2 J KAU 404 413 Lipoid determinations in obstetrics and gynecol gy by

means of the biol gical reaction W II PIRETZ Monat ss hr I Geburtsh u Cynaek 19 8 let 111 150 The diamonostic and therapeutic value of puncture

(Douglas) in ob tetrics and gynecology T HEYVEMANY Zentralbl f Gynaek 1928 lu 932 The present status of the ergot question with particular

reference to the preparations used in obstetrics and gyne Ly I F \FLON and (I I street \m J Ol 1 & (3 nec 1925 X1 3

bli

Indicate as for the interruption of pregnancy from the standpoint of internal medicine W Orlowski Ginekol polska 1927 vr. 110, 1124

polska 1927 vi 1105 1124
I sychiatric in I cations for the interruption of 1 reg
nancy J Mazerkiewicz Ginekol polska 192 vi 1141

Abortion from the eugenic standpoint L Wernic

Ginekol peliska 1927 vi 1150 1157
Social indication for aborti n & Greekol Cinekol

pol ka 1927 sa 1161 11 6

Abortion from the medicolegal stan Ipoint W Grzywonabrowski Ginekol polska 192 vi 1193 1115 Casarean section via the vaginal route as a means of interrupting pregnancy Brootka Bull Soc dobst

the guestion of the biochemical differentiation of the sexes H Burgerr and \ Sexbolp Zischr f Botanik

1927 xix 497

The meaning of the embryonic glycogen e pecially in regard to growth P Jorny Zischr f wiss Ilial

Zischr f Zellforsch u m kroskop Anat 1927 vi 558
Transuterine injecti ns of th fetus R Schwarcz
Zentralbl f Gynack 1928 ln 817
Fetal death due to intra uterine rupture of a velamentous

cord G W Koswik Am J Obst & Gynec 1928 xv1

438
The systemic classification of the human placents and its tiological meaning O (ROSSER Med Klin 1928 xxiv

Studies in the metabolism of the placenta E Ishtikana Biochem Ztschr 1928 ever 469 A case of bil be placenta covering the inferior segment

G Levi Bull See d'obst et de gynée de Par 1978 xvn 662 Spinal anasthesia and placenta prævia T GURAUDEN Bull See d'obst et de gynée d'har 1928 xvn 626

The individual treatment of placenta pre ia \\
ILENKEL Zischr f Gelurish u Gynael. 1928 cii
103

Two cases of uteroplacental apople y with gra e symptoms 1 Bracur Bull Soc dobst et de gynée de l'ar 1928 von 61

The hi toly ical diagnosis f lu tic placente h
KAUFMAN Zischt f Geburtsh u Cynaek 928 xci
306 318

The different types and mod s of de elopment of in trachorion e placental cysts. If Bryficest Lischr f Geburtsh u Gynach 10 8 xc11 120 Placental polyps L Josep Jentralbi f alig Path u

path Anat 19 8 xlu 241
Ruptured uterus 1 GRAFFIGNINO Am J Obst &

Gynec 1928 xv1 445
Atypical rupture of the uterus Wille Ztschr i
Geburtsh u Cynaek 1928 xc1: \$12

Rupture of the uterus and meteorism L Kraul Arch f (ynaek 1928 exxxi: 65

The management of ruptured uterus k Metotessi Orrosi hetil 1928 l in 331 Fotal concealed accidental hemorrhage simulating

ovarian turnor L W Robert Brit M J 1918 ii

A case of recovery from pernicious anxim a before lab r with the aid of liver diet 1 Brault Bull Soc dobst et de gyréc de Par 1928 xv 1 6 9

et de gyréc de Par 1928 xv 1 6 9
Diabetes durmap prennancy with particul r reference to
insulin therapy T WESEVER Monatsschr f Geburtsh
u Gynaek 1918 ltx in 149
T Total Control of the co

The relation of gall Had ler di et e to presancy L k
PERGISON and J F PRIFSTEP \m J Obst & ()nec
1928 vv %)
[48]

Demonstration of latent orderna to premarky by more of the intracultaneous salt to t P Obladev Zitch i Geburtsh u Gynaek 19 7 xc1 651

A further contribution on the demonstratan of little erdema of pregnancy with the help of haufmann's during test & HOLTERMANN Zentralbl I (ynack 1923 in

Labor and Its Complications

A definite cla sification of obstetrical diners L. U. Horrman Nebraska State M. J. 1928 vm. 336. The causation of the onset of labor H. knut. Muenchen med Webasch 1928 leav 553. The clinical a peets of premature ruptu e of the m. in the clinical a peets of premature ruptu e of the m. in the clinical and peets of premature rupture.

branes I KLEE Pischr f Geburtsh u Gynark to xci 645 Spontaneous l 1rth in duplex uterus with septate va. 183

A GREWING Muenchen med Wehnschr 1917 hun 1917 Normal birth of a child weighing 16 lbs F R PARAFE

Lancet 1928 ceve 500

The induction of labor in pregnancy A J Guiser

The induction of labor in pregnants 4 3 Goiser
Semana med 19 8 xxxx 1542
Inducing labor with hypophyseal preparations at the

termination of pregnancy K HATEKY Zeatrabl f Gynack, 1918 in 10 6 Intradural injections of hypophysin during pregnance (ontribution on the eurology of labor) K Emistrati

II WIESBADER Muen hen med Webnschr 192 hrs 18 7 The use of hypophyscal preparation in the third stare

pophi seal extracts as echolics? 1 CALMANY Zentralii i Gynaek 1928 hi 432 The mana ement of second and third stages of labor

I HIBBERT Illinois M J 1928 liv 00
To the telep J F Hanna J Lancet 1928 x 5

Avertin twib ht slep R Max Zentralld f Cvn2 k 1928 1: 1127 Ternocton induced tvib ht sleep in obstetnes F

ROFTICER Zentralbl f Cynack 1928 in 741
The conduct of labor and the use of anasthetics
Wilson J South Carolina M 1 s 1928 xxiv 200

Contraction or retract on? Drinks Bull Sor does the gymee to Far 1928 vis 03t. The management of the commoner forms of dystoci

H J WERTHAN Strash State M J 1928 u 136
Unsuccessful forc ps cases causation management and
end results D Miller Brit M J 1928 u 183
[45]

How far can unsucces ful forceps cases be prevented be efficient antenatal ca e? J HENDRY But M J 19 85 Un coessful forcep cases the need for a higher stand

Un coessful incep cases the need for a minus and W. F. Shaw. B. it. M. J. op? u. 188 is Internal r tat: n of the head with remarks on the Lighland forceps. I. I. McNalry. Am. J. Obst. & Gync. 1028. Xvi. 427

1938 xvi 407
kyelland's or Démelin's frep \ 0 87 A Huxi
Bull \ \footnote{1} do \text{do styrife de Par 938 xvi 63}
The various obstetine I posit ons and their variations of the control o

The various obstetne. I posit ons and their variations a presentation of the ve to Mapon Bull Soc dobted gynée de Par 1928 xvii 64.

The diagnost and his man gement of occi, ut postent posits in R. T. La Vere J. Lancet 1928 xviii 3%...

A ca e of primary face p sent to n Fletrevi But Soc dolst et de gynéc d Par 9 % xvi 67

Repeated transverse presentation in a cordiform uterus uterine tetany casarean section DEVLZI d obst et de gynec de Par 1928 von 644

Ash bills banal indication for casarean section. Lous Bull Soc dobst et de gynéc de Par 1928 xxu 633

Indications and limitati us of co-sarean section I C Sigi Vebraska State W J 1928 xiii 3 8

cas of low casarean section in an aged primipara IRLHINSHOLZ HAMANT and LEVY Bull Soc dob t et de gypéc d Par 1928 vyu 6-1

Lortes operation DELIEVROL Bull Sor dobst et de evnée de Par 1028 vui 624

Placenta pravia in the car arean operation L RAZETTI Rev de med 3 ciru, Caracas 1928 ti 75 Utero abdominal ti tula following casarean section J

W PRICE Kentucky M I to 8 xxv1 4 a Remarks with regard to Martin's warning again t the pelvic floor in ision A RIECK Zentralbl f Gynaek

1929 ln 863 Total rupture of the permeum L Jon Bull Soc dobst et de gynéc de Par 1918 van 665

A ca e of paraplegia during labor T SALTER Zischr i Gehuetsh u Gynzek to 8 ccut 136

Intrapartum hemorrhage from a ruptured varicosity in the vault of the vagina R L BARRETT \m J Obst & Cynec 1928 vvi 443 I ull ng on the cord in expression of the pla enta | L

Sacus Zentralbl f Gynaek 10 8 lu 860 Vea e f placenta accreta L KRALI Zentralbl f

The antiomy genesis and clinical considerations of pla enta acceta I NATHANSON Am I Obst & [50] Gynec 1928 xv1 44

I uerperium and Its Complications

The mana ement | f the postpartum atonic uteru HIF SY Schweiz med Wichnsihr 1928 Ivin 513 Thyril therapy in retention of milk I KRALL

Zentrall ! Gynack 1928 1: 8 ; It mpt alleviate n of depressing postpartum symptoms with ovarian and thyroid extracts. G. I ANGELLOT Med.

rev to29 vlv 1 I atal p stpartum hæmorrhage fr m a ruptured vari

ro ity in the cul de sac of Douglas E C I you Ir Am J Obst & Gyne 1928 vvi 436

I stratum care with special referen e to infections

D D kind Nebra ka State M J 928 xm 337 la terringical find n. s in the blood in puerperal fever

The oral and particularly the edentogenic inf tions f

the puerperal uterus II Sacas Zentralbl f (ynack 1924 111 99 The dagn a and treatment of puerperal tetanus. I

R TH TILL Zent albl f Gynack 1028 in 13 4 Literine t rilization W O \ Surgar Surg (ynec

LO 19 Prot 10 10 11 Vesse of pur reeral peritoriti. DEN VERS and Die North Bull See I obst et d. gynec de la 1028 xvi 600

Rarer type of puerperal frea t infect; n (with som remarks on an erid mic of pemphigu). Il Natjok Irch I Cynick o 8 crt in

New born

(my rative studies of the de elopment of the child durin the first m nths of lif G Diernicii Arch f (smack to 9 events to The care I the n aborn tabe I W HANGER Vita ka St te M J 19 5 xm 444

The physiology care and feeding of the newborn in cluding nutritional disturbances of breast fed children R TH VOY JASCHKE 1927 Munich Bergmann

A study of the organization for the protection of young children in Paris and the department of the Seine M I LIAN I res e med Par 10 8 xxxv1 1034

The diagnosis of the uniovular character of twin SIEMENS Arch f Gynael 1018 CYXXIII 84 The diagnosis of uniovular newborn twin from similari

D ROBLES Arch [Gynaek 1028 CYXVIII SAL Computing the frequency of uniovular twins WEINBERG Arch | Gypack 10 8 CYTYUI SO

Some factors in the infant mortality problem HERRMAN N YOR State I M 10 8 YEVIN 1087 I me licosocial study of the mortality among young

infants V IAN LUYEN Presse med Tar 1928 TYXXX 1034 The treatment of asphyxia neonatorum by the injection

of alpha labeline into the umbilical vein R \ Witsov Am I Obst & Cynec 1928 xv1 3 0

A case of root paralysis of the brachial plexus in a new born child Rouse. Bull Soc dobst et de gynec de Lar 10 8 XVII 636 Clayicular fracture in the newborn occurring in spon

taneous labor K ADLER Zentralbl f Gynack 19 8 lu The etiology of congenital genu recurvatum in the new

forn A Synders Monatsschr f Geburt ch u Gypael. 1924 Iver 68

Studies in the calcium and phosphorus content of the blood serum of infants O ULNER and C HILLENBERG Arch f Kinderh 10 8 levels 106 Umbilical hemorrhage in a newborn infant treated by

Hood tran fusi n I Lindourst Zentralbl f Gynaek 9 lu 961 The role of firmolysis in jaun like of the newborn infant

Mck Mirchell Im J Dis Child 19 8 exxvi 48/ The question f multiple amniogeni deformities 5 M KLEIN Arch f Gynaek 1928 CYVIII 833 Congenital atre is of the res phagus with tracheal res phageal fetula. H. R. MINSELL Am. J. Obst. &

(yne 1928 (VI 412

Miscellaneous

Sime I timeal matters Jetterr N Zealan I M J 10 8 YXVII 51 I renatal I nic and obstetrical clinic of Mars illes C I BIOT and J I DIVEO Bull Sic dobst et de gine

028 113 620 Textbook of midwifery Ed 16 B 5 SCHULTZE 1018 l eipzig Lugelmann

Outlines of a German \ational milwilery law S HAMMERSCHLM and F ROTT Arch f soz Hyg u Dem gr 19 9 u 15

II w the general pra titioner can do letter obstetrics (RUMPLER Suth W & S 1928 to 606

The cri i in the battle against the I wered birth rate KALP Muen hen med Wehnschr 1928 Ext 350 In id let eminate as in obstetrics and gynecology by

means of th biological reaction W H I LEETZ Monat sschr I Ceburt h u Gynack 1928 [xxviii 150]
The diagnostic and therapeutic value of puncture

Douglas) in ob tetrics and gynecology T HEYNEMANN Zentralbl I Gynael 1925 lu 932 The pre ent status of the ergot quests 7 with particular

t ference t the pr parati n used in obstetrics and gyne 1) I F NELON SHIEL I PATTER AM J OF L & Cines in S xit 4 1511 I ro and con of the vaginal cuff Contribution on a septic obstetrics I Frank Med Klin 1928 exiv 343

Lurther experiences with pituigan O Stein Zentralbl f Gyntek 1928 lin 608

Comparative serological studies of the blood of the cord and the retroplacental blood G Charriz (ynéc et obst 1923 xvi 283 [51] The value of the histoly ical diagnosi of syphili in the umbilical cord. Banjacki Lits hr f Gebustsh u Gyasek 1928 xxiii 313 318

The diagnosis of lues in mother and child Param Zische f Geburtsh u Gyniek 1928 x in 253
The deleterious effects of childbearin on women R Stillnin Zentralbi f Cyniek 1928 in 956

GLNI10-URINARY SURGERY

Adrenal Kidney and Ureter

I unctional insufficiency of the suprarenal glan is C A Mills Arch Int Med 1928 the 1990 The so-called white line of adrenal in ufficienty A M

CRAWFORD Lancet 10 8 ccvv 445
Bilateral suprarenal apoplery 1 Print and II Breen
Surg Gynec & Obst 1028 vlvu 303
An unsuccessful tran plantation of the suprarenals in a

clinical ca e of Addison's disease II CLECHMAN Deutsche med Wichnschr 1918 hv 426 Lararenal tumors G Lino Ann ital dichir 1928 vii

like variations in the renal vessels J Hellstroph

Atschr f urol Chir 1928 XXIV 253
The surgical pathology of malformations in the ki lees and ureters J 1 Davis J Urol 1928 XX I [52]
Fractional kidney function tests V 1 OckerBLAD

Fractional kidney function tests V I OCKERBLAD

J Am M Ass 1928 xci 635

The rôle of the kidney in non renal d sorders I SNAP

PIR Proc Roy Soc Med Lond 1028 xx; 1771 Hydronephrosis I Microon Bull et mem Sc nat de chir 1928 hv 905 The study of hydronephroses by ureterography M

CHEVASSE Bull et mém Soc nat de chir 1928 liv 000 [52]
Two cases of hydronephrosis due to abnormal blood tyessels P Flandrin J durol méd et chir 1928 xxvi

SS Conservative operat ons for hydronephrosi F 1 Apris Bull et mém Soc nat de chir 1928 liv 500 [52] Acute nephritis T G Moorbead Brit M J 1928 i

Unilateral hematuric nephritis Bernard J durol med et chir 1938 and 386 Staphylococcal suppurative nephritis (carbuncle of the

kidney) B M Dick Brit J Surg 928 xvi 106 Pyclonephritis I Dvvi Med Clin \ Am 1928 xii

447
Contribution regarding to the pyelograph c dia nosis of renal tuberculosis (Andrew Acta rad 1 1928 ix

280 [53] Renal tuber ulosis G B Ounter Internat J Mel & Sur, 1928 vt 42

Renal tuberculssis with exclusively vess al symptoms.

Licent Policini Rome 1018 xxx ez p af 603

A special anatomical and p tholog al form of enal tuber ulosis study of a kidney with multipl tub roul pseudocysts L Dax J d uroll med et chir 1918 xxx

Vephrosyphil's and early syphilitic 1 teru. M. ART. M. Ioli lin. Rome 1918 xxxv. z. p. at. 6.1.

Renal calculosis nephrolithotomy. R. Succo. I ol clin. Rome. 1928 xxxv. see prat. 601.

Rome 1928 xxxv sex prat tool

The influence of operative proc dures on the k dney
function in nephrol thasis and nephr pt 18

Surece Itschr f urol Chir 1928 vt 143

The control of postoperative hæmorrhage folls wat o phrotomy for the removal of calculi D Br ELL Am J Ob t & () nec 1928 xx1 350 Cysts of the renal pelvis W S Galkin Zischr f mod

Chir 1928 xxiv 225
Tumor of the renal capsule M. G. Pgive Li be f
ur l. Chir 1928 xxi rgt

ur | Chir 1928 xxi 191 | Terithelioma of the kidney | Terithelioma med 1928 xli 848

Papillary adenocarcinoma of the kidney T H Sweet Le Minnesota Med 1028 xi 603

Conservative urology in certain renal lessons J li

SUNFORD South M J 1028 xx1 717
The mechanism of the effect of renal decap ulatism P
VALDOY I Oblchin Rome 1028 xxx sez chir 3 3
Tran peritoneal nephrectomy F J Doyoux hm J

Tran peritonesi neparectomy r j Doctov um j Surg 1928 v 272 The collateral arterial circulation of the human uteler C I ROMMOIT Ztachr f Geburtsh u Cynaek 19 8

Xcm 1 3 A ca e of double ureter one of which is bland F Parks J durol med et chir 1928 X 4 4 5 Symptoms of urete all obstruction H M Givernor

Med J & Re 1928 cx 1912 217

The pristaltic and ant penst lite mo ements meto educaters as affected by drugs C M Grance J Urol 19.5

Cystic distation of the u eter strangul ted at the urethral meatus J Cherr J durol méd et chi 9 % xv 46%
Strictures of the ureter F Leouel and B Fry J du ol méd et chir 1928 xx 447

Ci atricial treture of the pelisic treter demo strated by retrograde treterography M Chryasst J dur I med et chir 19 8 xxv o The diagn is of u eteral calcula V Pellerron Bit.

M J 928 11 3
Calculus of th upper urmary tract trated by me m thods e d results (L HUNGE J Urol 1928 at 1821)

Ob reation of ureteral calculi I H Cold and C N Halling V J bli hg n State M Soc 1938 xxv1 558 Ve ic lurt trocal and ureteral stone the quitor of treatm in H H Schelhau Zent alb) f Cynn l 10 8

his 4

Ureter uretero tomy as appl 1 t b truction of the
dupl ate i upper urinary t act 1 B locey J Lr I
1928 vx 100

Th. The late ureter file a shorter with tind 2

1928 vv 100 [54]

Th tump f the urste afte n phrectomy the ind catter is fo primery n ph o-ur tere tomy F kron Rd.

Surg. 1028 v. 1.2.

[54]

Bladder Urethra and Penis

A foreign body in the bladde V. L. Fercusov. But M. J. 19 9. 400.

Tip from an enema tub. in the urinary bladder. T. J. 18 886. Zentral? J. C. mack. 102. h. 040.

The operative treatment of traumatic and inflammatory contractures of the bladder and congenital deformities of the bladder T NARDLI Zentralbl (Gynack 1927) is 1946 vesicorenal reflux found after closing an interureteral

vesicovaginal fistula I CHALVIN J d'urol méd et chir

1928 XX 246
Muciparous glands in the mucosa of the urinary bladder
I EDELMAN J Urol 1928 XX 211 [55]

Accidental snaring of two small stones by a catheter WF BRAYNE Bitt M J 1928 ii 490 A consideration of bladder tumors with special regard to the therapeutic measures best suited to the different

types W A FRONTZ Sur Gynec & Obst 1929 xlv11
413
Some aspects of vesical tumors and the results of treat

Intramural carcinoma I R Sisk Wisconsin M J

Observations on the radium treatment of vesical carci noma A C Morsov Proc Roy Soc Med Lond 1028

Vi 1655 [55] Urethral diverticula T B Mot 47 Brit J Surg 1918 Vi 51

Discussion on the treatment of urethral structure and fistulæ by excision F hmd E T C Million R O WARD I WARD and others Proc Roy 50 Med Lond

1928 xt. 1635 [56]
An attempt to fashion an artificial urethra following its complete destruction B N Wyssiljerr Zentralbi f

Chir 1928 by 969
Restoration of the female urethra and ve scal sphincter
an operative technique resulting in urinary control W II
MCC tw and M Douglass Surg Gynec & Ob t 928

kivii 408

Extensive orethrectomy with repair by free m bilization of the cort us spong sum R. C. Becc. J. College Surg.

Australasia 1928 i 68

The operative treatment of the more serious types of hypo nad as BORCHERS Zent albl f Chir 1928 by 928

Genital Organs

Prostatic backache as a cause of disability following inputy I R Botes Mionesota Med 1928 to 5 C. Chronic infections of the processes and seminal vesicles (III.) All March Med Las Research and Seminal vesicles

C. H. CARVEY Med J. & Rec. 1928 CEXVIII 213

The interpretation of chronic infections of the prostrice and eminal vesicles. R. D. HERROLD. J. Am. M. As. 10. 8, xci. 55.

Quincke s orderna and the prostate gland D M OLKON Illinois M J 1928 liv 217

Operative treatment of an abscess of the prostate R
Le FUR Par chir 1928 x 36 [60
Some cases of prostatic calculi G GAYET J durol

med et chir 1918 xxv 305
Retention in hypertroph) of the prostate Papia Chalffold and Boulavo J durol med et chir 1928

Cystoscopy as a preliminary procedure to prostatectomy

T W HARRAB Ohio State I J 1928 xxiv 712

F W Harrin Ohio State M J 1928 xxiv 712
Exposure of the bladder prior to cysto tomy or supra
pubic prostatectomy J H NEFF South M J 1928 xxi

Suprapubic prostatectomy J M BirNie New England J Med 1928 excix 456 I rostatectomy with complete closure S H Harris I College Furn Australian 1928 1 64 Act Alexandria

J College Surg Australasia 1928 1 65 Med J Australia 1928 11 288

Miscellaneous Urology—a review of recent advances Γ S De Pus

California & West Med 1928 xxiv 163

The urinary tract and intra abdominal symptoms A J
Sparks J Indiana State M Ass 1928 xxi 3 6

Routine home management of common urmary complaints BEGG N Zealand M J 1928 vvvii 214

The cure of urmary incontinence due to vaginal hys
terectomy M Samuel Zentralbi f Gynaek 1927 h

2044 Anuria D N EisevDrafti Minnesota Med 1928 xi

A colorimetric method for the determination of bile acids in urine I katayana J Lab & Clin Med 1928 xiii 1150
A rapid guantitative method for the determination of

acetone and diacetic acid in urine JA Behre J Lab & Clin Med 1928 xiii 1155

Hæmaturia during treatment with insulin A V Nevis

Brit M J 1928 ii 442
A case of hamaturia from shoe dye poisoning O J
SCHMITT J Am M Ass 1928 xci 26

Fs ential harmatura the report of a case with histologic examination of the ki line; R. A. Kildurger, J. Med. Soc. V. Jersey, 1928, xxx, 575. Lordosis as a cause of potural albuminum. M. Lewi

SON I B I REILIGH and O B RAGINS Arch Int Med 1928 alii 440 Urnary tuberculosis W. R. Delzell, Am. J. Surg 1928 V. 90

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

Conditions of the Bones Joints Muscles Tendons Etc

Some recent at ances in our knowledge of rickets and all ed d ea es I C P RSONS Lan et 1928 ccrv 433

Osteomyeht v F B Mumeord J Ind and State M 1928 xx1 368 Osteomyehts and trauma I J de B Ploos vv M tri M nat chr f Unfallheilk u Versieherungsmed

193 xxxii 25 49 3 97 146 I steeteemyehiis deformiti s and their treatment 5 I steeteemyehiis deformiti s and their treatment 5 I steetee Zicher forthep Chir 1928 xli 16 Axia ecfosteti ti rosa J I Cxx Brit M J 1928 ii O testis fibrosa with lipoid cells J Zeyland and W Drea A ch f klin Chir 1928 cl 310 Localized osteodystrophia fibrosa (c) stica) W R

Localized osteodystrophia fibrosa (cystica) W R
Braizew Arch I klin Chir 1928 cl 37
Epicondyliti apophysitis and osteomalacia in the male
adult with remarks upon coccycodynia J A Marijez

Author with remains upon roccycodynia J A MATHEZ

Re méd de la Su se Rom 1918 x lviu 69

The differential diagnosis of sarcoma of the long bones

W B Corry J Bone & Joint Surg 1918 x 420 [62]

The problem of osteo-articular diseases of vasomotory

ong n Hydrarthrosis and traumatic arthrit's genesis and treatment R I training J Bone & Joint Surg 1928 x 492 [63]

Hemophilic osteo-arthropathies Retvecke Zentralbi

Enforcine fact is in the etiology of chronic joint diseases. If Stratss. Med J & Rec. 1928 cxxviii 229 Chroni arthropathies. C. P. I MERSON. Illinois M. J. 1928 ltv. 196

Foct and a surgical prognosis in arthritis V K HART South M & S 1928 to 618

Foreign body arthritis O F PHRENTHELL Deutsche Zischr f Chir 1928 ccviii 400

Some ca sillustrating the value of orthopedic measures in the treatment of arthritis R D Schrock Med Clin N Am. 928 xii 521

The etiology and path genesis of arthritis d formans C Collif and F Ion occo 7 ent albit f Chir 1928 Iv

Lyp nen es with the parenteral injections of sulphur (sufr el Heyden) in the treatment of arthritis deformans (Huberk and Westzenfled Deutsche med Winsicht 1928 by 566

A cale of contracture (pocket knife contracture) of alm st every joint in a Chinaman I HAERTEL Arch forth p u Unfall Chir 1928 xxvi 231

forth p u Unfall Chir 1929 xxvi 2,1 Fuberculous tenosynovitis M ORT (254 p lék ce k 1928 lxvii 438

I I oma of the tendon sheaths R Manney I of I n Rome 1918 xxxx sez chir 364 [63] The diagnosis and treatment of orthopedic deformities

in early childhood DE F I WILLARD Atlantic W J 1928 xxxvi 924 The prevention and correction of deformity in the treat ment of infantile paralysis W J MERRIL Atlant c

M J 1928 xxx1 931
Two rare sport injuries II HILLEBRAND Muenchen med Wehnschr 1928 lxxv 60
Bo ing and hoxin, injuries a critical study with personal

observat ns k Wolff Deutsche Ztschr'f Chir 19 8
ccvin 3 9
Lirst a d in sport in unes G Roseystag Beihefte z

Med Kln 10 8 x 1 31
Shoulder pains 4 von Liebergwann Muenchen med
Wehnsch 928 lx v 60

Wehnsch 928 lx v 60
Deforming arth t s of the sh ulder and s apulohumeral resection be ause of a false diagnosis of sarcoma H

RIESE Zentralbl f Chi 19 8 1 895
A rare type of biceps rupture SCHMIEDEN Zentralbl f
Chir 1918 ly, 949

Chir 1918 lv, 940
Isolated dislo atom of the biceps tendon in the upp r
arm I Scheffber Beitr z gen hil Med o 8 vii 104
Spontaneous dislo atom and d struction of the tendon

f the lo 1, head of the biceps brachii fifty nine instances
\ \text{W Meyer Arch Surg 1928 viii 493}
\text{I ree bod es in the elbow joint Weil. Zentrallii f Chir

Three bod es in the chow joint Well Zentralin 1 Can 1928 by 1113 Three cases of Kienbocck's disease H Adelfand

Three cases of kienboeck's disease H ADELFANG Polski przeglad radjol 1927 ii 132 Retra tion of the dorsal aponeurosis upon the hand A

BRAVO Bol So de cirug de Chile 928 vi 19 Talipomanus F O FLTERICH Atlanti M J 19 8

The formation of d uble epiphyses in the meta argus (Contribution on the phys bay f bone growth) L Berger Arch f orthop u Unfall Chir 1928 xxvi

276
An unusual type of supernumerary digit S II Cor RIGIN Canadian M Ass J 1928 xix 342 N simple fin cr split F PRANKE Zentralbl f Chr 1928 Iv 8 Klipp I Feil syn frome H Heidecker Zest-all I Chie 1928 lv 1568
A case of cervical rib G A DUNLOP Lancet 19 5, ccxv 500

Subcutaneous rupture of the pectoralis major mucle D McKrewy Brit M J 1928 n 611 Congenital absence of the night first rib (ESFO ALL PREACHED BY MEDICAL ALL OF THE M

The industrial implies atoms of spina bifida occulta. J. D. LLUS. Internat. J. Med. & Surg. 1919. xli. 456.

A control ution on the revision of the so-called rhematic and neurol gical diseases. J. Osteochondropathy of the

and neurol gical diseases. I Osteochondropathy of the cervical vertebra. T BARSONY Cyógyászat 1928 haw, 2021. Sacralization of the fifth lumbar vertebra as cause for

Backache I Marrius Muenchen med Websuke 1928 Ixv 345 Backache VA Rut Internet J Med & Surg 1928

xlt 433 Sacral pain and pyriform to H Jeyrren Zentrill I Cynaek 1928 in 883

Cynaek 1928 in 883 Tumbro S Irbes Win klin Wehnschr 1982 186

I neumatic correction of scoliosis J Ha s Zischr i orthop Chir 1928 xiix 224 D seases of the intervertebral fibrocartila es E Li v V ch f orthop u Unfall Chir 1928 xxvi 295

Traumatic platyspondyl m Canrielle Lyon chr 1928 xvv 482 Traumatic platyspondyli m and its treatment Taves NER I yon chr 1928 xvv 496

VIER I you chir 1928 XXV 496

Compression of the vertebræ in tetanus Zi aschurent
Zentralbl f Chir 1928 ly 949

The value of the intervertebral di ks in the differential diagnosis of traumatic inflammaticry and con attal diseases of the vertebral column W WYNEY Betr 2 blin Chir 1928 cdl: 322

The radicular syndrome in hypertr ph c osteo arthritis of the spine L GUVIHER California & West Med 19 X IX 152

Meningococcus pondylitis \$ I PSTEIN Med] & Rec. 1928 cxx ur 219
Spondylitis deformans Thompson N Zealand M J

1028 xxvii 245 A case of spondylitis of the upper file cer ical vertilist and an extension apparatus for such cases 10 too Dorn-BELCKER and G. Dijlastra Volkers. Nederl Maandahr

Slovansky sbornik ortop 1928 in 44 Hydrid disease of the spine R A William Med J Justral a 1928 in 306 Two cases of acute osteomyelits of the spine J

Byrancer Bull et mem Soc nat de chir 19 8 [64

O teomyelitis of the coccyx W P BLOUNT J Am W

V riebral tumors H Holm Deuts h Zischr f Chi 1923 cevin 40 W lignant sacrococ vg al chordom a new ca Path

logical and anatom: 1 tudy J I optairs and F Pivicts
A ch I puth \nat 1928 ccl vii 363
(1ant-cell tumor of the spin with the report of s case
A Corron \nath J Roentgen 1 1928 xx 18

leno titi and o tetts f the vmphysis and ram of the pub f llowns, suprapubic cystot mts F Bris 18 Ottets fibrosa of the pelvi and th h J Bress Bettr z kin Chir 129 c l 80

A case of grant cell sarcoma of the shum treated by deep Yray therapy M J Write Mil Surgeon 1928 Isin

A new anatomical presentation of the ligaments of the hip joint A I RIEDEL Zischr f orthop Chir 1928 thy

Observations on Legg's disease R C LONERGAN Illinois M J 1928 IV 221

M d lling of the hip for arthritis deformans and the late re ults I BERGMANN Arch f klin Chir 1928 cl 259 Symmetri al osteochondritis dissecans of the lateral femoral condyles H Niessen Beitr z khin Chir 19 8

Ciant-cell tumor of the upper end of the femur report of three cases M S HENDERSON Minnesota Med 19 8 TI 51 Giant celled turnor of the neck of the femur operation

with probable cure W. G. TURNER Canadian M. Ass. J.

1028 XIX 342 Kuhn's plint for extension of the thigh W DUEKER Med Klin 1928 valv 588

The clinical picture of snapping knee Arch f orthop u Unfall Chir 1928 XXVI 315

I oreign body in the knee joint (joint mouse) A T Bazin Canadian M Ass J 1928 xix 141 I arge osicles in both knee joints W Bligh Brit M J

1024 11 520 The occurrence of fabellie I GRASSMUECK Zentralbl

f Chir 1928 ly 1031 Rupture of the quadriceps tendon k HUGEL Zentralbl f Chir 1028 ly 1010

The unstable ankle V CHLLMSKY Arch f orthop u Unfall Chir 1928 xxvi 3 4 A new club foot plint for might wear F BREIDERHOFF

Muenchen med Wchnschr 1928 lxxv 450 An artificial bony implant in the ankle in paralytic res equinus W. F. Wassick, Nederl Tridschi, v. Geneesk 1918 lun 1016 1020

A device for the prevention and rel ef of foot drop B L COLEY and D ULMAR J Am M Ass 19 8 vc1 26
The healing in place and functional restoration of a foot amputated except for a thin bridge of soft tissue

BENDER Deutsche med Wehnschr 19 8 hv 568 The climbing method of primitive peoples and the posi-tion of the great toe M WESTENHOFFER Arch f I rauenk u Konstitutionsforsch 927 xiii 361 Limitation of extension in the basal joint of the great toe

and its surgical treatment J Schleller Beitr z klin Chir 1928 cxlu 471 Hallur valgus c n iderations based on twelve cases I

VAN UREO Bol Soc de cirug de Chile 1928 vi 29

Surgery of the Bones Joints Muscles Tendons Etc

Three articular resections in the same patient | I are.l. I you chir 1928 xxv 493

Technical faults in tend n suture A \ SEBOLD Zentralbt f Chir 1929 ly 925

W KEDIKONA Arch f kl n Chir 1928 cl 58 contr bution t the study of prognosis pathog nesis i treatment of epiphyseal cora vara of adules ents J

De Ment. Pes e med I at 1928 xxxv 1033
Operate n for cova vara Rieder. Zentralbl f Chir 1915 1 915 Subtract anteric osteotomy for dry arthritis of the h p

Ott 19 9 xlvn 3

The late result of an arthrodesis of the hip for dry pain ful arthritis TAVERNIER Lyon chir 1928 xxv 464 The diagnosis and end results of tuberculosis of the hip joint C J O Brown Med J Australia 1028 ii

The treatment of tul erculous disease of the hip J TAYLOR Glasgow M J 19 S Cx 129
Extra arti ular arthrodesis of the hip (in tuberculou coxitis) D JONGK Serb Arch f d ges Med 10 9

XXX 160 Meniscal injuries and their treatment Γ Hans

Muenchen med Wchuschr 1928 Ivxxv 518 The late results of operations on the ment ci BIRGFFLD Zentralbl f Chir 1028 ly 10 8

Original features in arthroplasty of the knee with im proved prognosis 1 H ALBEE Surg Cynec & Obst , 1028 vlvn 312

Resertion of the knee for tuberculous arthritis of exu berant synovial form TixIER I you chir 1928 xxv

493 The rocker artificial leg H VON BAEYER Zentralbl f Chir 10 8 lv 640

A case of per istent metatarsalgia treated by operative measures R Brocky I an et 1028 ccsv 540

The treatment of con-enital pes equina varus in the nursing child C. I. VSERRE. I de mid de l'ordeaux 19 8 CV 62/

The operative treatment of per equipus exquisitus KOFMANN Zentralbl f Chir 19 8 lv 7 6 A simple method for the treatment of contracted flat foot H SCHWAN Klin Wchnschr 1928 vii 644 The development of and operation for hallux valgus

P I FRIACHER Zentralbl f Chir 1929 lv 977 Fractures and Dislocations

Fractures in industry P A Davis I Am M As 1928 XCI 695 Studi s in the arying relationship between bilateral fracture R I RALNAEL Arch f klin Chir 1928 cl

Separation of the epiphyses and premature ossification of the epiphyses C T MILLICH Pette z klin Chir

1928 cxln 626 The rôle of the circulation in the healing of fractures a

review W. H. ROBINSON Arch Surg 1928 XVII 420
The treatment of fractures M. KATZENSTEIN Deutsche med Wehnschr 1928 liv 570

Major points in the treatment of fractures D II LEV Are there medical means for hastening the conscludation of fractures? J Mot zov I resse med I ar 1928 xxxxx

1001 Relaxe I m to n in fracture treatment. A preliminary

report M & LINDSAY J Bone & Joint Surg 1928 x The operative treatment of recent fractures C Scup-[67]

DER Proc Ros Soc Med Lond 1928 xx1 1685 [67] B nesuture A Nessberg Leitr z klin Chir 1928 cxlu 441 An abs rhable bone nail Wifwers Zentralbl f Chir 1928 ls 857

The technique of corrections with the Schultz osteoclast and some criti allob ervations ba ed on personally treated cases If Pick Arch f orth p u Unfall Chir 1928

TTV1 323 The development and treatment of pseudarthrosis I I usicz Słovanski słotnik ortop 1938 in 62 Treatment of pseudarthroses Lindeman Arch f orthop u Unfall Chir 1928 xxvi 28,

Operation for habitual dislocati n of the shoulder WILHELM Zentralbl f Chir 1028 lv 046 Contribution on the operati e treatment of habitual

dislocation of the shoulder R PURREMIALER Muen chen med Wchnschr 1928 lxxv 608

I racture dislocation of the shoulder the relation of soft parts to restoration a new method of treatment R T TAYLOR Arch Surg 1928 XVII 475

I sternal luxation of the clavi le coracoclavicular syndesmopexy Michox I you chir 1929 xts 466 A new splint for fracture of the clavicle R \ 1 123505

J 1m M 1ss 1928 xc1 794 A contribution for the study of radial paralysis immed rately complicating closed fractures of the humeral diaphy

sis I Goujos Tresse mel lar 1913 garri 1914 I openences and observations of a personally sustained and reduced po terror di location of the elbow K Lun torr Beitr z klin Chir 1929 culu 336

Dislocations and simple fractures of the elbow I S GEIST and M O HENRY Minnesota Med 1928 xi 500

Subluxation of the head of the radius T Winniewski Polski przeglad chir 1928 vi 45

Lesion of the forearm from backfire of a crank BARBARIN and R MONTANT Laris chir 10 9 xx 10-I vperimental attempts to explain the late rupture of the e t nsor policis tendon following fracture of the radius ALFINSCHMIDT Zentralbl f Chir 1928 I 041

Madelung's deformity STUINER Z neralbl f (bir 1928 lv 949

Dislocation of the os lunatum KARZ Zentralbl f Chir 1028 lv 613 A case of severe injury to the han I with complite func tional recovery Contribution on the treatment of meta

carpal fracture primary closure of wounds and open treatment of wounds F Schwell Arch f rthop u Unfall Chir 1928 xxv1 30%
Fixation in flexion of the second metacarpophalan_eal soint due to capsular interpo ition following sponta e us

report on of a lateral dislocation Contraint it h I racture and dislocate n of the ternum H H HOLDER

MAN Ann burn 1928 lvxx 11 252 Torsional di locati n of the atlas F BRINAMANN Min Wehnschr 1928 1 649

Flexion dislocation of the atlas from muscle pull an lots mech ni m \ Kof \ iGSWIESFR Ztschr f orth p Chir 1029 ThE 20

Vertebral fracture H. ABRAHAMEN Ugesk f I aeger 1929 xc 103 133 I racture of transverse process of fourth lumbar verie-

bra J H. M. FROBISHUR J Roy Arms Med. Comps. I racture of the pelvis and rupture of the bladder with

the report of a case W S MARTIN I Nat M is 311 77 Ptor

The significance of the diagnosis of so-called congental di location of the hip in infants. H. Street st and I 1 AZEKAS Therapia 1028 VII

Direct osteosynthesis f r the base of the femur for cern cal fracture the result after thirty menths LERIEF I yon chir 1028 xxv 510 I racture of the left femur at the hip ; int and of the

left hymerus at the shoulder ; int \ H BIKER. J to M Ass 1928 xc1 Fracture of both bones of the leg W F Victiz

Am I Surg 1928 v 275 The causes for delayed callus formation or peouls thr sis particularly in subcutaneous fractures of the beand their treatment RINGEL. Zentralt ! Chu 19 1 lv 782

Re ults of the treatment of subcutaneous fra-tures of the leg in the state accident insurance O Winter ent Schweiz med Wehnschr 1928 lym 383

Treatment of fractures of the head I the tibia. E. Koenia Zentralbl f Chr 1928 Is 5 8 Fracture of the spine of the tibia P B Rore .

Bon & Joint Surg 1029 x 500 I portable frame for the su pen ion and traction of ac

tures of the lower extremity G A CALDWELL South M J 1928 TX1 438 Fractures of the ankle T D Dickson J Im M

158 1925 TCI 545 Chronic medial subtalus d location O F Schille Rozhledy chir a gynaek 1927 v 342

The tre tment of fracture and dislocation of the tales

H Staton Zentralbl f Chir 1023 1 32

Orthopedics in General

Thirty s vih report of progress in orth ped c surgery P D WILSON L T BROWN M N SWITH PITER IN R K (HORMLEY and others Arch Sure 1928 Mill

The constructs n of plaster moulds II C TRLUBIE Med I Australia o % 1 2 3

SURGERY OF THE BLOOD AND LYMPH SYSTLMS

Blood Vessels

In experimental study of arterial collateral circulati n II I PEARSE JR Ann Surg 1928 lexxvs: 227 1691 Anastomosis between the lesser and greater circulation C TRUNECEL Bruxelle med 1928 vm 1376 Ligati n of the common carotid artery II KINTZEN Muenchen med Wehnschr 1928 lxxv 60,

Histological studies of the common external a d in ternal carotids and the ve t bral and middle meningeal arteries of man C. China Arch I japan Chr 1928 v

Lour cases of tortuous formation of the deep femoral artery and femoral vein A N GENNADIEW Zischr f Anat u I ntwi hlung ges 1028 kxxv 363 Thromb es M Marre Zischr i aerzil Fortbild 1925 TXV 269

The pred po ing fat is in thrombosis W STARLE OF and S Samerark V rhandl d deuts h Gesell th t nnere Med 10

nere Med 19 pp 152 54
The in re s of thrombosis and embolism Heats2

Zentralbl f Chi 1981 815 In early the mbosis f the bifurcation f the aorta The import nee f u gical exploration of the b function in est bl hing the diffe ential diagnosis in certain types

f obliterati e arteritis and determining the ch ice of trest m nt J DE GIRARDIER and P STRICKER Re de the 1928 xl 11 97 C F LAINTER

Thrombo-angutis obliterans England J Med 929 cix 599

Sponta cous necess of the ext emities and the thees advanced by von Winiw rier that it is a primary obli rating endart ritis I STABLE Zentralb! f Chr 1928 Iv 9 4

Remarks on the diagnoss and treatment of gangrene due to obliterating arteritis in the adult R Lethovici J de chir 1928 ***1 354 The circulation in arterioscleratic gangrene of the lower extremity J J Morros New Ingland J Med 1028

excit 607

Fatal embolism Fischer Zentralbl f Chir 1929 Bilateral renal embolism combined with spastic ileus

W I WOSNESSENSKY Zentralbl [Chir 1928 ls 631 Carotil cavernous sinus aneurism C I B Hunni

Lancet 1928 TEXY 541
A case of successful ligature of the innominate artery Contribution on the surgical treatment of traumatic ancurism S I resonot Arch f klin Chir 1928 cl 280 The modern treatment of varicose eins (H Colf

Bot 11 J 19 8 11 525 The technique of injections for varicose veins T II

T BERBER Brit VI J 19 8 H 328
Injection freatment of various visits L I unemass

Klin Wehnschr 1928 vii 689 On the action of radium emanati n on the blood we sels F I in a seta radiol to 8 1 160

Blood Transfusion

The influence of the ova ies on blood formation II Josiu /tsche f klin Med 1928 evn 151 A bl od stain giving more constant results

TEFESTER and O S FEEDSTER | Lab & Clin Med 1919 km 1139 The blood sedimentation test it dia nostic and pr g

nostic value G GRUENFELT O CLASS and I Bat M J Med Soc \ Jersey 1028 xx 5 7
The sedimentation of the red bl od cells (Kxzz and M I DEFROMETE Fraehn d inn Med u kinderh 1925

33311 26f The sedimentation test and its clins al value in ortho pedic surgery I RASZEJA I olska gaz lek 19 1 or Hæmo-a lutination I Hæmo a glutination in the blo I of miants W M KARSHAER J Lab & Clin

Med 1928 xm 1134 Studies in the clinical uses of the J Clemens blood

a glutination test K I LICK and I TRALE Zentralbi f Chir 1929 ly 1991

The erythropo etic e pon e of the sa iou anamias to liser therapy W S Middlette J Im M Ass 1928

I vperimental antenna diet fa tors and relate I path

ol gical changes of human an timias & H WHIPILE] \m \1 \ss 1928 xc1 8/3

Operative Surgery and Technique Postoperative Treatment

Di infecti n of the hands I rest Zentralbl f Chir Distributed to the bands of the

l'eptifa e I terminati ne in surgical condit ne haver Deut h /techr f Chir 1929 ccviii 126 C minarativ h rt tests in surgery Rix Zentralbi f Chir 10 8 h 910

Treatm nt f th heart lefore an laft rogeration II

The nature of perni ious anamia J H Mr us and W I ich herbox J Am M iss 1028 on 023. The cooking of liver for the treatment of pernicious anamia C E Pollock Lancet 10.8 cctv 508

The treatment of permicious anamis with liver and liver

extract T ORDWAY and L W GORHAM J Am M Ass 10 8 XCI 025 Pernicious aniemia treated with liver diet and liver ex

tract F H HEATH J Am M Ass 1928 xc1 928
Permicious an emia cedema and reduction in excretion of Water E MUELENGRACHT P IVERSEN and F NAKA Arch Int Med to 8 vlu 423 ZARA

Liver fractions in pernicious anamia R West and I G VICHOLS J Am W Ass 1929 v.1 967
Tapeworm anxima therapeutic observations

ISLACS C C STURGES and M SMITH Arch Int Mel 1929 th 313

Hamophilia and its successful treatment with nateina llopis B MELAU Klin Wchnschr 1928 vii 590

Thrombocytopenic purpura report of a case (1) HEISEL J Med Cincinnati 19 8 14 340 The nervous and mental symptoms in diseases of the blood J H LFINER A Nork State J M 1928 TYVIII

Folycythæmia and splenic tuberculosis M Schalca I resse med Par 1028 xxxvi 1033

Temporary pulmonary cedema in a leukæmic child dur ing a sta e somewhat resembling aplastic anamia I I

Weber But J Child Dis 1928 xxv 1 4

1 case of myelocytic leukamia H G Goppine and M MACEUR I ROY Army Mel Corns I on 1 1928

Lymphocytosis Its clinical importance K R Mc Further studies in the white cell pi ture in the blood in sun, ical conditions M Steaver Deutsche Zischr f

Chir to28 ces in 318 The clinical significance of eosinophilia on a general medical service. I H I AGE & B TURNER and J H Wilson. J Lab & Clin. Med. 1928 xiii. 1109

Observations on the Luxbemi al changes in the blood following radium therapy II B MATTHEWS and V I Mazzola Am J Obst & Gynec 1928 vvi 9 [71

Lymph Vessels and Glands

Roentgen therapy and actinotherapy of tuberculous cervical adenitis I I ISCHETTA I re se méd Par 1928 XTTV1 1066

HEAD Am I Surg 1028 V 220

SURGICAL TLCHNIQUE

Studies in the activity of the heart during operations WACHSMUTH and I'I MAYER Zentralbl f Chir 1928 ly

Surgery in diabetics A M Burgless and M Pickle Rhode Island VI J 1928 at 139
Surgery in the dial etic C G ROBERTS J Nat. VI

lss 1929 II 120

Influenza and surgical intervents as Dr Rotville Bull Soc dol st et de gynec de l'ar 1928 xun 638 Sterilization of the operate e field with a r per cent solu tion of bulliant green S & Bakkat Arch f klin Chir 1929 cl 152

Textbook of treatment for accid nts P Jorrkowitz 10 5 Munich Lebrann

1 175

Application of the tourniquet to the forearm Goffze Zentralbl f Chir 1928 lv 952 Treatment of \ ray and rad um burns J I SHEEHAS

laryngoscope 1928 xvvvni 612 Report of an extensive burn of the body with recovery Af Leigh Kentucks M J 1928 xvv., 4 7 Homoplastic kin transplant in uniovular twins BAUER

Zentralbl f Chir 1028 ly Sor

Whole thickness dermo-epidermal skin grafts II S VENLAND J College Surg Australasia 1929 1 62 The techn que of gland transplantations H L Hove

Indocrinology 1928 xii 491 The practical results obtaine I by regeneration and trans plantati n in man J von I RTL. Monatsschr f ungar Mediziner 1927 i 196

I ostoperative care H H LERR Virgin a M M nth 1028 lv 308 I ostoperative thromboses and their treatment Science

Zentralbl f Chir 1028 lv 011 The frequent occurrence of postoperative thromb si DETERING Zentralbl f Chir 1928 lv 856 Lostoperative ketonuria M Mogreen

(vnaek 1029 lu 1216

Postoperative pulmonary complications F RAE Cana d in M Ass J 1928 xix 328 I ostoperative pulmonary complications in the light of recent American study with a contribution on the nathogen sis of massive post perative collapse of the lung R

LONTAINE Lyon chir 1929 xxv 385 A simple apparatus for the continuous intravenous a l ministration of physiological salt solution L I HARRI and W O STODDART Canadian M Ass J 1928 to 1721 346

Antiseptic Surgery Treatment of Wounds and Infections

The use of chloromine in surgery W DOBRZANIECKI Pol ka gaz lek. 928 vn 118 Remarks on the treatment of phlegmons M BRANDES Zentralbl f Chir 1928 lv 908 The treatment of acute inflammatory onditions of the

skin and its appendages with carbon-dovide snow 1 kgon Zentralil f Chir 1928 lv 919

The product on of immunity and healing in severe infec tions by means of the cautery iron and medication treatment of infectious diseases by medication A BIER Med. Khn 1928 xxiv 281 The influence of the hyd ogen ion concentrat on in the

selective bacteriostatic action of gentian violet on members of the colon group of organi ms W D STOVALL M S NICHOLS and V VINCENT J Lab & Clin Med 1028 TH 1122

Anæsthesia

Papermental tudies nanæsthesia II A estlesia and re p ration H Killian and E Schneimer Narkose u rsthe 10 1928 1 187 The h art during anæsthe is and operative proc 1 r s

II M MARVIN New England J Med 1928 exciv 34 Up to date anasthetic apparatus Deutsche med Wchnschr to 8 liv 553 II FRANKEN

Ether anasthesia with the Omb cdanne apparatus Borr Deutsche med Wchnschr 1928 liv 563 Discussion on late ether convuls as C F L SHIPWAY A DALY L & THOMAS and others Proc Roy Soc Med Lond 1928 XVI 1699 [72] Is the use of ethyl chlori le as an anasth tic without dange ? HAYWARD Zischr f acrzil Forthid 19 8 xx

286

ical practice. H Schumpt Narkose u Anasthesie 1919 chen med Wehnschr 1928 lxxv 500 Avertin anæsthe ia II Deutsche med Webnish

Somnifen ether anasthesia H Epetwinn and F

The indications for and simplification of the ind-

Aitrous oxide analgesia and full anasthe is in pelulis-

DAX and Watern M ra-

more of a immistration of nitrous oxide anasthes a T

WELKER Med Klin 1928 XXIV 422

FORE Zentralbl f Chir 1928 lv of

Twilight sleep in surgery

1024 liv 558 Can avertin anasthesia be improved Bevotte. Zei tralbl f Chr 1928 ly 947

tvertin anasthesia O Rorrii Muenchen mel. Webnschr 1929 lxxv 599 Round letter concerning avertin angethesia Med

Khn 1928 xxiv 529 615 692 The pre ent position of narcylen anzithe is

WIENECKE and K. SCHROPDER Deutsche med Wehrschi 1028 liv 556 Experiences with pernocton and thesis E Street

Schmerz 1929 1 191 Permocton an esthesia H Hanene Deutsche Zisch Chir 1028 ccviii 80 Results so far with intravenous pernocton angether a

P Bosse and Schlockwerper Varlose u Anzethr k 1928 1 161 The possibility of u ing the Leduc current for human

anasthetizat on S Lienev Deutsche med Wehnich 1928 lt , 564 Experiences in the possible usa e of allyh opropillar bituric acid in surgical anasthesia R PATRY

u Anasthesie 1928 i 183 Intravenous hedonal anasthesia F FAIRIN Ind f klin Chir 1928 cl 218 Rectal an eather a with avertin (absorption and dosag)

STRAUB Muenchen med Wehnschr 1928 luv 501. Experiences with avertin rectal anasthesia in surg ry H. FLOERCREY and O Murs Muenchen med II hawhr 1928 IXXV 596

Rectal anasthesia with avertin (resorption and dosaic) W STRAUB Muenchen med Wehnschr 1928 her

The rectal use of avertin for quieting birth pains R Hornoung Muenchen med Wehnschr 1918 let S95
Rectal ether-oil drop anæsthesia H Marri Zentralbi

f Chir 1928 lv L ERB Schmerz 1028 4, 00 Sacral anæsthes Regional anæsthesia by the intravenous route Cames Pre se méd Par 1918 xxxvi 1966

The simplineation of intravenous anasthesia MON Beitr z kl n Chir 1928 cxli: 660 My method of infiltrate n ancesthesia for kidney surg if 1 W Wr CHNEWSKY Zentrall I f Chir 1928

Local næsthesia in perations on the lower extremiti-ANDREJEFF Deut che Zischr f Chir 1928 et 1

338 A fatality following the injection of a local anasthel C I SNAPP Ann Otol Rhinol & Latyng L 19

****** 0 1

Surgical Instruments and Apparatus

The sumplest and surest method if catgut stends at I A GOLJANITZKI Zentralbl I Chie 1928 lv 0 5 I new w und clip S tox Wacureverett Zentrall felt of t of a

PHYSICOCHEMICAL METHODS IN SURGERY

Roentgenology

Handbook of roentgen and radium therap) Wetterr 1928 Kempten Ulgaeu Nemnich The measurement of effective wave lengths I C HUDSON and H N STERLING Am J Roentgenol 10 8 XX 241 Ti sue changes following roentgen itradiation G Donaga Ergebn d inn Mel u kinderh 1928 xxxiii

Lurther clinical observati as on the therapeutic use of the cathode rays BAENSCH and I INSTERBUSCH Khin

Wehnschr 1928 vn 68r I comparison of the quantitative biol gical effects of gamma and \ rays C PACKARD J Cancer Research 10 8 XII 60

I new departure in I ray technique A Sulmony Brit I Radiol 1028 1 327 rays radium and electrocongulation in skin cancer I FAHLER Med J & Rec 1928 cttviii 61

The influence of roentgenology on the practice of surgery J T Case J Michigan State M Soc 19 9 xxvii I rotection and the working con litions in rocnigen ray department G W C Laye Brit I Radiol 1928 1

Radium

The organization and work of the Rajium Institute (Radiumhemmet) in Stockholm G Forsselt Schweiz med Wchnschr 1028 lvin 60 Design of a well protected radium pack G I ATLLA Am J Roentgenel 1928 xx 128

Miscellaneous

Occupational therapy H E Mock and M L ABBEY I Am M Ass 1928 xci 797

Physical therapy—an important adjunct in medical care C J Cunnivos Mod Hosp 1028 xvs 69
Physiotherapeutics of diseases of the cardiovascular system T M Groeder. Radiology 1928 n 104

Heliotherapy in the high mountains A ROLLIER Strahlentherapie 1028 Trviii 250

The practical application of hydrotherapy in pediatrics

J LaB Ward Arch Pediat 1928 vlv 555

Electrotherapy in general practice A CALDER Cana dian M Ass J 1928 tix 331

Discussion on diathermy in relation to circulatory disturbances especially high blood pressure S Ress T I COTTON J WILSON A SAVILL and others Proc. Roy Soc Med Lond to 8 xx 1677

MISCELLANEOUS

Clinical Entities-General Physiological Conditions

Collapse and analogous conditions II Eppincer and 1 SCHLERMEYER Klin Wehnschr 19 S vii 777
Multiple al scesses of skin of infants C Whire and A

G I YORD Arch I diat 1928 xls 526 Cal mosts interstitules and its relation to Raymand's di ease A LEHRYBECHER Bestr z klin Chif 1928 c la suo

Neoplasms and physical agents Beraro Lyon chir 1028 XTV 498

\ consideration of national and acquired resistance to neoplasia J L Jorontii \nn Int \led 1929 ii 275 Radiosensitivity and tumor morphol gy I C knox Radiology 1918 x1 229

Hydrofluoric and chromi acid ulcers 1 104 Trapsas Beitr z klin Chir 1928 c lis 878 The treatment of early rodent ulcer] I Surris Brit

M J 1928 H 443 The probl m of mal knant tumors In experimental and theoretical study 1 Herrandy 1928 Berlin

The results an I the g al of cancer study W CRAMFR At hr f kreb forsch 1928 xxv1 194

The cancer situation in the State of New York III II pital facilities J M Sway N York State J M 1925 XXVIII 1100

1028 XT 7 425

Multiple pr mary mal bnancy H Wilking and T H Sumi J Missouri State M 1 s 1928 and 6

The effect of oxidation of filtrates of a chicken sarcoma (chicken tumor I-Rous) J H MUTILER J Fuper Med 1928 zlvm 343

Occupational cancer of mule pinners \ II South \M Brit Vi J 1928 II 437
The new aspects of the cancer problem G \ SOPLE

New England I Med 1028 creet 612 The complications of cancer C T Pack New Or

leans M & 5 J 1928 Ivex 180 The increased mortality rate of cancer II I I GGER I Cancer Research 19 8 xt1 9

Spontaneous recovery from cancer 1 Martier Lyon chir 1029 XXV 440 Some considerations concerning the treatment of cancer

J S Horstey Ohio State M J 19 8 xtiv 693 Medical treatment of cancer R J Britis & Rec 1028 CTT 111 261

The influence of the beta rays on carcin ma 1 1 l OFB and M WRESCHVER Strahlentherapie 1927 XXVII The infications is and dangers of diagn stic section in

malignant tumers ILFTTGE Zentralil f Chir 10 5 Implantation of rat carcinoma an I sarcoma within be

nigh fibro aden ma J Herman J Cancer Research 10 9 11 3

General Bacterial Protozoan and Parasitic Infections

Pneumococcus infections I SCHLCKERY Med Klin 1024 K.W 535 Further experiments with the intradermal pneumococ us infects n in rablits A Goot VER J Feper Med 1928 zivin 413

The duration of staphylococcus aureus septicamia V DUNGEN and G SHERY But M J 1928 H 529 Studies on indifferent streptococci I Separati n of a serological group-Type I C H HITCHCOCK J Exper

Med 1928 xlvin 393 Stud es on indifferent streptococci 11 Observations on the distribution of indifferent streptococci in the throats of

rheumatic and non rheumatic individuals C. H. Hirren COCK J I vper Med 1928 xlvm 403
Coccidi idal granuloma 1 R WALTERS Cabifornia

& West Med 1928 xxix 188 Granuloma coccidioides

C C TOMEINSON Mc I Clin N \m 1928 xii 457 Granuloma coccidioides report of a case responding favorably to antimony and potassium tartrate 'C C

TOMESSON and I BANCROFT J Am M Ass 1928 ACL Brucella melitensis abortus infection in man 1 F

HERRMANN and G LDLUND Minnesota Med 1028 xt The clinical aspects of brucella mel tensis var abortus infection in man. A report of the first ca es recognized in

lennsylvania R A KERN Am J M Sc 1928 clvvi Colon bacillus infection of the skin G B UNDERWOOD

J Indiana State M \ss 1928 xvi 373 The relation of the capsular substance of bacillus coli to antibody production T SMITH I Exper Med 1028 alvut ter

Jaundice in acute infectious mononucleosis (glandular fever) V R Masov California & West Med 1928

1xit 187 Glandular fever with a report of a small epidemic in a local orphanage I I LEMANN New Orleans M & S

J 1928 LXXI 187 Undulant fever of bovine origin in man infection by the ba illus abortus of Bang M Rocir I ev méd de la

Susse Rom 1928 xlvm 657 Tultramia J S MONTGOMERY J Missouri State M

Report of two cases of ulceroglandular tularamia L R WILHITE J Oklahoma State M Ass 1918 xx1 257 Septicemia due to a strain of the bacillus mucosus cap salatus group occurring in a case of diabetes mellitus I H MASON and W W BEATTIE Arch Int Med 1028 xlu 331

Notes on a case of senticarma can ed by inf chin with bacillus welchii C D M Beckiev and G I Taires J Roy Army Med Corps Lond 1928 h 210
The treatment of so-called surgical tuberculous with

particular consideration of these with positive ment a ray findings \ OBERNIEDERMAYR Deutsche Zixhr L Chir 192 ccvu 22

Ana robic wound infections in peace times | Length
and K Neller Arch f klin, Chir 1018 cxb 01 Histol gical forms of internal human mycoses C 16 DURANTE Gynécologie 1928 xxvit 321

Ductless Glands On the physiological action of Pressor X (Collap) &

Soskin J Lab & Clin Med 10 9 x11 1117
Obesity and the endocrines M KER Med J & Ric 10 8 CXXVIII 223 Surgical Pathology and Diagnosis

The serodiagnosis of echinococcus disease in man k STEINERT Muenchen med Wehnschr 1918 Ltv 369. I method of tissue puncture for the diagnost of inspers ble tumors J Willorn Zentralbl f Gynaek 192 li, 2656 Rapid and routine preparation of tissue secti as E F

LANE J Lab & Clin Med 1928 xiii 1143 Traumatic cedema Harring Arch I klin Chr 1028 cl 288

Autopsies for the year 1927 G B Despagot Vd I & Rec 1028 CXXVIII 217

Hospitals Medical Education and History Improvements of hospitals R G Craic J C lee

Surg \u tralasia 1928 1 30
The early devel pment of ho pitals (before 1348) PARKER Brit J Surg 1928 XV1 39 Larly history of medical education in California Ann

Surg 1928 lyxxun 321 The trainin of surgeons F P SANDES J Clier

Surg Australasia 1028 1 54 An outline of a suggested p key for the C flere of Surgeons of Australa is for the impro ement of hosp tal V Herrey J College Surg Australasia 1928 1 43

International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

EDITORS

FRANKLIN H MARTIN, Chucago SIR BERKELEY MOYNIHAN, K.C.M.G., C.B. Leeds PAUL LECENE Paris

> SUMNER L KOCH, Abstract Editor MICHAEL L MASON Assistant Editor

DEPARTMENT EDITORS

EUCENE H POOL General Surgery
FRANN. LYNCH Gynecology
JOHN O POLAK Obstettes
CHARLES H FRAZIER Neurolog cal Surgery
F N G STARR Abdominal Surgery
CARL A HEDBLOM Chest Surgery

T EDITORS
IOUIS E SCHMIDT Genito-Uninary Surgety
PHILIP LEWIN Orthopedic Surgety
ADOLPH HARTUNG Recrugenology
HAROLD I ULLIE Surgety of the Ear
L W. DEAN Surgety of the Nose and Fired
ROBERT H 1YY Plastic and Oral Surgety

CONTENTS

ĭ	Index of Abstracts of Current Literature	111 711
П	Authors	18
ш	Landmarks in Surgical Progress	103 106
w	Abstracts of Current Literature	107 163
v	Bibliography of Current Literature	164 188

Editor 1 Communications Should De Sent to Franklin H Martin Editor 54 East Eric St. Ch. cago.

Editor 4 and Bus ness Offices 54 East Eric St. Ch. cago. Illinos 5 U.S. A.

Publishers for Great Britain 1 Bail ere Tindall & Cox. 8 Hernetts & Conent Garden London W.C.



CONTENTS-FEBRUARY, 1929

LANDMARKS IN SURGICAL PROGRESS

ABSTRACTS OF CURRENT LITERATURE

107

107

107

Nose and Siguses

HOWARTH W.

Death Autonsy

Fig. 1 A and Thompson L Rhinoscleroma

Sinus Thrombosis Acute Leptomeningitis

FACLETON W P Traumatic Lesions of the Head

and Their Relation to the Ophthalmologist

VAN WAGENEN W P The Incidence of Intra

I ANCOAST H & The S gmficance of Petrous Ridge

and Localization of Brain Tumors

cranial Tumors without Choked Di k in One

D formation in the Roentgen Ray Diagnosis

Cerebellum and Retina (Lindau's Disease) with the Report of a Case

Active Principles of the I osterior Hypophy eal

Therapy in an Hypophysectomized Juppy

Four Months of Treatment with Daily I stuitary

McI : 1 J The R ute of Absorpts n of the

Artenovenous Aneurism of the

The Results of Replacement

Haman somata of

The Conservative and Surgical

Turier A L and Reviolds F E \cute Suppuration in the Accessory Sinuses Cavernous

SKILLERY R H Chronic Ethmosditis

Treatment of Chronic Ethmoiditis

103

111

113

113

117

117

118

110

110

120

120

VEPHRECTOMY-ERASTUS B WOLCOTT Irring S Culter M D St D Chicago

SURGERY OF THE HEAD AND NECK

Topp II C Aseptic Cavernous Sinus Thrombosis

MAYBAUM J I and GOLDMAN I B Primary Jugular Bulb Thrombosis

Borra E Inflammatory Tumors of the Submaxil

The Early Development of th

\ Case of Hæmangioma of the

Otol gical Observations in Trauma

Indothelium of Descemet's Membrane the

Cornea and the Anterior Chamber of the Fye

The Isolation of a Third (Camma) Crystallin

MANN I C The Process of Differentiation of the

I ICLIFTON W P Traumatic Lesions of the Head

and Their Relation to the Ophthalmologist

of the Head \ Clinical Study Based on Forty

Fowler F P Marked Deafened Areas in Normal

STEWART J P The Histopathology of Mastorditis

Retinal Layers in Vertebrates

BURKY L L and Woods A C Jens I rotein-

Head

Eve

lary Gland

MARLOW S B

Choroid

Ear

GROVE IL I

Fare

Two Cases

WHEEL	ER J M Pulsating Fxophthalmos	108	Pharynx	
ANDERS	SON J R Reconstruction of Contracted Eye	109	YATES A L. Methods of Estimatin, the Limbility to Postoperative Hamorrhage from Unsutured	
	D S R The Acute Rise of Tension I of	109	Wounds (Following Tonsillectomy)	Į I
	ving the Use of Adrenalin in Glaucoma		CLERF L H Lung Abscess Following Tonsillectomy	
Duke 1	CLDER W S The Etiology of Glaucoma	109	from the Standpoint of the Bronchoscopist	12
CIPPOR	D S R Ocular Complications of Diabetes	109		
CLARK	T Infection of the Eye	100	Neck	
	A C Protein Therapy—Specific and N n	110	JOSLIN E P and LAHEY F H Diabetes and	11
HILL !	I Tuberculosi in Relation to the Γye	0	Hyperthyroidism	11
	S \ C and Roves B The Therapeuti Use Tuberculin in Ocular Tuberculosis	110	THOMSON SIR ST C Intrinsic Cancer of the Larynx Operated upon Through a Laryngofissure	11
	RMAN E L The I dle of the Ar phenamines the Production of Ocular Lesions	to	SURGERY OF THE NERVOUS SYSTEM	
Howa	RD II] The Intravenous Use of Typhoid		CONCERN OF THE MERCIOUS STRIEM	
1.	aratyphoid Vaccine in I ve Diseases	111	Resin and Its Coverings Cranisl Nerves	

11

111

117

ttt

113

113

111

Dixon II E

Brain

Lobe

REICHERT I L

Year & Series of Cases

CUSHING H and BALLEY P

Heterotran plants

120

121

121

122

122

123

123

124

124

7 2 A

125

125

325

125

126

127

128

128

120

120

Obmer cord	and its covern	ags	
Kubie L S	and FULTON	JF	A Clinical and
Patholo	gical Study of	Two	Teratomatous
Cysts of	the Spinal Cord	Contan	ung Mucus and
Ciliated	Cells		Marana mud

Sympathetic Nerves

ıν

REID M R Tumors of the Autonomic Nervous System

The Fnd Results of Penartenal MULLER G P Sympathectomy

SURGERY OF THE CHEST

Trachea Lungs and Pleura

SCRALL LER A

BOOT G W Problems in Bronchoscopy and **Esophagoscopy**

WEIDLES I I and HERRMANN L G of the Lung Experimental Studies in Chronicity CLERF L II I ung Abscess Following Tonsillectomy from the Standpoint of the Bronchoscopist

Bronchi SMITH R D The Etiology of Primary Lung Car cinoma An Laperimental and Clinical Inves ti_ation

SURGERY OF THE ABDOMEN

Primary Carcinoma of the

Abdominal Wall and Peritoneum

KOONTZ A R New Principles and Procedures in Hernia Repair

WAUGH G F The Clinical Aspect of Congenital Mesenteric Malformation in Children

Gastro-Intestinal Tract

FREDET P and LESNÉ E Hypertrophic Pyloric Stenosis in Infants The Anatomical Result of

I ylorotomy in a Patient Treated and Cured Three Months Previously MARTIN F and BURDEN V G Pylonic Achalasia

and Pentic Ulcer WALTON A J Carcinoma of the Stomach

HORSLEY J S Cancer of the Stomach in Patients Over Seventy Years of Age

Enerts E M Carcinoma and Ulcer of the Stomach Gastro Enterostomy with a Trans Morse T S verse

Jejunal Incision Preliminary Chaical Report

BALFOUR D C Recutning Ulcers Following Partial Gastrectomy OWINGS J C McINTOSH C A STONE H B and

WEINBERG J A Intra Intestinal Pressure in Obstruction BRANCH J R B Intestinal Tuberculosis Causing

Obstruction GINSBURG I and KLEIN E Late Intestinal

Stenosis Following Strangulated Herma DRACSTEDT C A Experimental Studies in Intestinal Obstruction and Intestinal Toxermas

Acid and Trauma on Jejunal Transplants to the Stomach ALLEN N M Postoperative Jejunal Ulcers

129

IΥ

6,0

130

110

IJΙ

m

131

111

I t2

111

IJ

115

137

McMunnich J P and Tispath, F F A Remark able Ileal Diverticulum BARRON M E Simple, Non Specific Ulcer of the

Colon CHAPMAN I F Polyposis of the Large Intestine HULLSIEK H E Multiple Polyposis of the Colon

LARIMORE I W Roentgenology of the Colon WILLIS B C The Treatment of Perforative Ap pendicitis with or without Abscess SMITH R L. Rare Complications of Acute Appen dicitis

Liver Gall Bladder Pancreas and Spleen

HIGGINS G M and MURPHY G T The Phagocytic Cells (von Kupffer) in the Liver of Com mon Laboratory Animals COPHER G H and Dick B M Stream Line

122 Phenomena in the Portal Vein and the Selective Distribution of Portal Blood in the Liver BRUN R. G. Hydatid Cysts Communicatio with the Biliary Tract Their Frequency Their Treatment Based upon 170 Observations of

Hydatid Cysts of the Liver Operated upon at the Sadiki Hospital HILLEBRAND H Duodenal Impations in Cases of

Choledorhus Fistula RICHTER H M and ZIMMERMAN L M of the Abdomen without Dramage After

Operations upon the Bile Tracts The Surgical Anatomy of the HENSCHEN C Spiente Vessels

HUTCHISON R Chronic Splenomegaly in Child hood Diagnosis and Treatment BILLINGS A E Abscess of the Spleen

GYNECOLOGY

Uterus

DE SA H A Case of Double Uterus MASSON J C and PARSONS E Cystic Cervicitis with Special Reference to Treatment by

Cautemzation Staton H E Hæmatometra A Report of Twenty Three Cases

ALLEN E and BAUER C P Autotransplantation

of Endometrium in the Eye of Rabbits TRAUT H F Adult Human Endometrum is

Tissue Culture SHAW W Mixed Tumors of the Uterus and Vagua 198

GENNELL, A. A. Cystoscopy in Carcinoma of the Cervix WARD G G and FARRAR L K P Radium Statistics of Carcinoma of the Cervix Uteri Two

More Five Year Series Mowar G T The Results of Radium Treatment

in Carcinoma of the Cervix Uten

Adnexal and Persuterine Conditions		BARRETT LADY Indications from Statistics on the Falling Birth Rate	146
DOUGLASS M Torsion of the Fallopian Tube with the Report of a Case Producing Acute Gangrene of the Tube	140	MITCHELL R The Prevention of Maternal Mor tality in Manitoba	148
SMITH W S and DENTON J A Case of Pyosalpinx Caused by Cryuris Vermi ularis Complicated by Torsion of the Oviduct	141	Genito Urinary Surgery	
WOLFE S A Primary Bilateral Carcinoma of the		Adrenal Kidney, and Ureter	
Tube Novak E The Present Status of Ovarian Therapy	141	CAYLOR H D Suprarenal Renal Heterotopia	140
Lucio B A Autotransplantation of the Ovary	143	Report of a Case HERTZ J The Effects and Results of Suprarenal ectomy in Gangrene of the Extremities	149
DOLGOPOL V B Ectopic Corpora Lutea	143	HARRIS A Traumatic Rupture of the Left kidney Case Report	140
External Genitalia		BASCOCK W W The Tolerance of the Lidney of	,
BABCOCK W W The Vagual Approach to the	143	Trauma and Infection KNIFFER A The Roentgen Picture of Horseshoe	150
BASSET A and GUÉRIN P Sarcoma of the Vagina		Kidney	120
in the Adult	143	DAVIS E The Surgical Pathology of Malforma	150
OBSTETRICS		tions in the Kidneys and Ureters	150
Labor and Its Complications		POTTER C Tyclonephritis and Urethral Obstruc-	
HOFBAUER I The Effect of Bile Salts upon the		GUTIERREZ R Non Surgical Renal Tuberculosis	151
Automatic Contractions of the Uterus and		Hyman A Renal Neoplasms	157
upon the Action of Pituitary Extract During Pregnancy A Possible Explanation for the Cause of Labor	T44	PAVIN M Ligature of Both Ureters Obstruction Relieved Cure	152
LYNCH I' W. Anzethesia in Obstetrics	144	FULLERTON \ The Diagnosis of Ureteral Calculi	153
MATRIEU A and SCHAUFFLER G C The Rigid and Stenosed Cervix in the Tirst Stage of		Bladder Urethra and Pens	
Labor Bailey H The Long Labor	144	KivCaid H L A Bacteriological Study of the Puerperal Bladder	
HARRIS J W and BROWN J H The Bacterial		CRUTE A L Tumors of the Bladder	153
Content of the Uterus at Casarean Section	145	MARKOFF N The Formation of a Urethra from the	-33
GORDON C A A Survey of Caesarean Section in the Borough of Brooklyn City of New York	145	Bladder Following Its Complete Destruction in a Woman	154
Puerpersum and Its Complications		Genital Organs	
HARRIS J W. and BROWN J H. The Bacterial Content of the Vagina and Uterus on the Fifth Day of the Normal Luerperium		BAKER T The Value of Vas Injection in Chronic Genital Infections Based upon a Series of Seventy Five Cases	
GOODALL J R and Wiseman M Cervical Infec	-	GARVIN C H Chronic Prostatitis	154
tions in the Puerperium Warson B P An Outbreak of Puerperal Sepsis in	146	STONE E A Comparison of the Results of Various	154
New York City	146	Treatments for Acute Gonorrhocal Epididymitis SCHOLL A J Primary Adenocarcinoma of the	154
KINCAID II L A Bacteriological Study of the Puerperal Bladder	153	Epididymis of the	155
Newborn		Miscellaneous	
FLAGO P J The Treatment of Asphyrua in the Newborn Preliminary Report of the Practica Application of Modern Scientific Methods		McKHUN C F Pyuria in Children The Use of the Cysto ram	155

146

146

146

Miscellaneous

Lirth Rate

Falling Birth Rate

CREW F A E The Biological Aspect of the

ROBERTS W J The Economic Aspect of the Falling Birth Rate

HORDER SIR T The Medical A pect of the Falling

SURGERY OF THE BONES JOINTS MUSCLES

TENDONS

Conditions of the Bones Joints Muscles Tendons Etc

MEYER A W Spontaneous Dislocation and De struction of the Tendon of the Long Head of the Biceps Brachs: Fifty Nine Instances

156

156

COOPERMAN M B Gonorrhoral Arthritis

vi INTERNATIO\AL	AB	STRACT OF SURGERY	
GUNTHER L The Radicular Syndr me in Hyper trophic Osteo Arthritis of the Spine	156	Antiseptic Surgery Treatment of Wounds Infections	and
Surgery of the Bones Joints Muscles Tendons WALLACE J O The Diagnosis and Treatment of Surgical Tuberculosis in Early Childhood	Etc 137	DOLGHTY J F Rattlesnake Bite RICE T B and HARVEY V K The Therspeute Use of Bacteriopha e in Suppurative Conditions HANDLEY W S The Treatment of Cangrene	161 161
Brown, C. J. O. The Diagnosis and End Results of Tuberculosis of the Hip Joint Taking J. The Treatment of Tuberculous Disease of the Hip	157 157	Anæsthesia Lynch F W. Anysthesia in Obstetrics	144
Fractures and Dislocations Taylor R. T. Fracture Dislocation of the Shoul		DONOVAN R BEFFERINDE J J and RECENTER SAI C Menin omyelitis in a Hered) yibil to Patient I ollowin, Spinal Anasthesia	16t
der The Relation of Soft Larts to Restoration A New Method of Treatment HOLDERMAN H H Fracture and Dislocation of	159	PHYSICOCHEMICAL METHODS IN SURGE Roentgenology	erf
the Sternum	158 158	PANCOAST H k The Significance of Petrous Rudge Deformation in the Roentgen Ray Dia nosis and Localization of Brain Tumors	119
SURGERY OF BLOOD AND LYMPH SYSTEM	s	LARIMORE J W Roenteenology of the Colon KNIPPER A The Roentgen Picture of Horseshoe Kidney	130
DANDY W F Arteriovenous Aneurism of the	117	MCKHANN C F Pyuria in Children The Use of the Cystogram MAYNEORD W V and Piney 1 Some Effects of	15>

Sympathectomy
Copping G III and Dick B M Stream Line
I henomena in the Portal Vein and the Selective Distribution of Portal Blood in the Liver
HENSCHE C The Surgical Anatomy of the

Splenic Vessels
Theis F V Ligation of the Vitery and Concomitant Veni in Operations on the Large Blood Vessels

MORTON J J and PEARSE H E JR The Tem perature Effect of Popliteal Vein Li ation in Thrombo Augutts Obliterans and Arterio sclerosis

DE MASSARY C and FLANDRIN P Rupture of an Ancurism of the Abdominal Aorta into the Duodenum

Blood Transfusion

MAYNEORD W V and PINEY A Some Effects of X Radiation on Blood

PACHA K R Evidence That There is a Hamatopotetic Hormone in the Blood of Anamic Children

SURGICAL TECHNIQUE

Operative Surgery and Technique Postoperative Treatment

LATES A L Method of Estimating the Liability to 1 ostoperative Hæmorrhage from Unsutured Wounds (Following Tonsillectomy) \ Radiation on Blood

121 Guyer M F and Daniels F Cancer Irradiation
with Cathode Rays

Radoom

133

100

160

IIA

135 WARD G G and FURRAR L. K. P. Radium Statis
tics of Carcinoma of the Cervix. Two More
Five Year Series

Mowar G T The Re ults of Radium Treatment in Carcinoma of the Cervix Uten

MISCELLANEOUS

Clinical Entities—General Physiological Conditions
Greens F R Ocular Complications of Diab tes 109
JOSLIN F P nd LAIGEY F H Diabetes and
Hyperthy robulem

SLYE M The Relation of Heredity to Cancer 162
SUGLES & Stud es upon a New Tran plantabl
Eco Rat Turnor 162

Rat Tumor

REINHARD BECHWALD and TECKER Some Further

Faperion es with the Production of Collectal

Lead o Salt of Lead

Given M F and Diviels F Cancer freadulism
with Cath de R vs.

16

EGGERS H F The Increa ed Mortality Rate of Cancer

General Bacterial Protozoan and Parasitic Infections

STEWART F W and HASELBAUER P Virus Neu tralization Txp rim nts with Rosenow's and

Lettit s Antipoliomyeliti se

BIBLIOGRAPHY

Surgery of the Head and Neck		Genito Urmary Surgery	
flead	161	Adrenal Kidney and Ureter	178
Ese	164	Bladder Urethra and Penis	179
Ear	165	Genital Organs	179
Nose and Sinuses	165	Miscellaneous	180
Mouth	165		
Pharynx	166	Surgery of the Bones Joints Muscles Tendon	15
Neck	166		-
		Conditions of the Bones Joints Muscles Tendons Ltc	180
Surgery of the Nervous System		Surgery of the Bones Joints Muscles Tendons	100
Brain and Its Coverings Cranial Nerves	167	Etc	181
Spinal Cord and Its Coverings	167	Fractures and Dislocations	182
Penpheral Verves	163	Orthopedics in General	183
Sympathetic Nerves	168	· F · · - · · · · ·	
Miscellaneous	168	a	
		Surgery of the Blood and Lymph Systems	
Surgery of the Chest		Blood Vessels	183
Chest Wall and Breast	158	Blood Transfusion	184
Trachea Lungs and Pleura	168	Lymph Glands and Lymphatic Vessels	185
Heart and Pericardium	100		
(Esophagus and Mediastinum	169	Surgical Technique	
Muscellaneous	169	Operative Surgery and Technique Postoperative Treatment	183
Surgery of the Abdomen		Antiseptic Surgery Treatment of Wounds and Infections	185
Abdominal Wall and Perstoneum	169	Anæsthesia	186
Castro-Intestinal Tract	169	Surgical Instruments and Apparatus	186
Liver Gall Bla Ider Pancreas and Spleen Miscellaneous	171		
discensificons		Physicochemical Methods in Surgery	
Gynecology			
		Roentgenology Radium	186
Uterus	173	Miscellaneous	187
Adnexal and Penuterine Conditions	173	Briscenaneous	187
External Gemtalia Miscelfaneous	1 4		
Tyriscettraticoffa	174	Miscellaneous	
Obstetrics		Clinical Entities—General I hysiological Conditions General Pacterial Protozoan and Parasitic Infec	187
Pregnancy and Its Complications	175	tions	187
Labor and Its Complications	176	Ductless Glands	188
I uerperium and Its Complications	177	Surgi al Pathology and Diagnosis	183
Mi cellaneous	177	Lxperimental Surgery	188
AL CELIARCORS	18	Hispitals Medical Education and History	183

1) INTERNATIONAL	AB	STRACT OF SURGERY	
GUNTHER I The Radicular Syndrome in Hyper trophic Osteo Arthritis of the Spine	156	Antiseptic Surgery Treatment of Wounds Infections	ud
Surgery of the Bones Joints Muscles Tendons WALLACE J O The Diagnosis and Treatment of Surgical Tuberculosis in Early Childhood	Etc	DOUGHTY J F Rattlesnake Bite RICE T B and HARVEY V K. The Therapeuts Use of Bacteriophage in Suppurative Conditions	161 161
Brown, C J O The Diagnosis and End Results of Tuberculosis of the Hip Joint	157	HANDLEY W S The Treatment of Gangrene American	161
TAYLOR J The Treatment of Tuberculous Disease of the Hip	157	Lynce I W Anæsthesia in Obstetrics Dónovan R Beretgrytte, I I and Recenter	144
Fractures and Dislocations		SKI C Meningomyelitis in a Heredosyph litte Patient Following Spinal Anæsthesia	161
TAYLOR R T Fracture Dislocation of the Shoul der The Relation of Soft Parts to Restoration A New Method of Treatment	158	PHYSICOCHEMICAL METHODS IN SURG	ERY
HOLDERMAN H H Fracture and Dislocation of the Sternum	158	Roentgenology Pancoust H K The Significance of Petrous	
Dickson T D Fractures of the Ankle	158	Ridge Deformation in the Roentgen Ray Diag nosis and Localization of Brain Tumors	110
SURGERY OF BLOOD AND LYMPH SYSTEM	MS	KNIFFER \ The Roentgen Picture of Hors shoe Kulney	130
Dandy W. D. Arteriovenous Ancurism of the	117	MCKHAN C F Pyuria in Children The U e of the Cysto ram	133
MULLER G P The End Results of Persartenal Sympathectomy	121	MAYNEORD W. V. and PINEY V. Some Effects of X. Radiation on Blood GUYER M. F. and DANIELS F. Cancer Irradiation	1,9
COPPLER G. H. and DICK B. M. Stream Line Phenomena in the Portal Vein and the Selec- tive Distribution of Portal Blood in the Liver	133	with Cathode Rays	161
HENSCHEN C The Surgical Anatomy of the		Radium	
Splenic Vessels THEIS F V Ligation of the Artery and Concomi	135	WARD G G and FARRAR L K P Rad um Statis tics of Carcinoma of the Cervix Two More	139

159

159

150

159

τάο

Five Year Series

MOWAT G T The Results of Radium Treatment in Larcinoma of the Cervix Uters

MISCELLANEOUS

140

Clinical Entities-General Physiological Conditions GIFFORD S R O ular Compli ats ns of Diabetes JOSLIN F P and LAHES F H Diabetes and Hyperthyroidism *** 161 SLYE M The Relation of Heredity to Cancer SUGILRA L. Studies upon a New Tran plantable Rat Tumor

REINHARD BLCHWALD and TUCKER Some Further I vperiences with the Ir duction of Collor lal Lead or Salts of Lead

GUER M F and DANIELS F Cancer Irradiation with Cathode Rays

EGGERS H E The Increased Mortality Rate of Can er

poietic Hormone in the Blood of Anæmi Children SURGICAL TECHNIQUE

tant Vein in Operations on the Large Blood

MORTON J J and PEARSE II E JR The Tem perature Effect of Popliteal Vein Ligation in Thrombo-Anguitis Obliterans and Arterio

DE MASSARY E and FLANDRIN P Rupture of an Angurism of the Abdominal Aorta into the

MAYNEORD W V and PINEY A Some Effect of

PACHA K R E idence That There 1 a Hamato

Vessels

sclerosus

Duodenum

Blood Transfusion

Nadiation on Blood

Operative Surgery and Technique Postoperative Treatment LATES A L Methods of Estimating the Liability to Postoperative Hamorrhage from Unsutured Wounds (Following Tonsillectomy)

General Bacterial Protozoan and Parasitic Infections STEWART F W and HASTLEAUER P VIEW New tralization Experiments with Rosenow's and Lettit Antipoliomyel tic sera

BIBLIOGRAPHY

Surgery of the Head and Neck		Genito Urmary Surgery	
Tesd Je Ger Kose and Sinuses Touth	164 164 165 165 166	Adrenal Kidney and Ureter Bladder Urethra and Penis Gential Organs Miscellaneous	178 179 179 180
Pharynx Neck	166 166	Surgery of the Bones Joints Muscles Tendon	S
Surgery of the Nervous System. Jrain and Its Coverings Cramal Verves Jonal Cord and Its Coverings empheral Verves yropathetic Nerves limetilaneous	167 167 168 168	Condutions of the Bones Joints Muscles Tendons Etc Surgery of the Bones Joints Muscles Tendons Dic Fractures and Dislocations Orthopedies in General Surgery of the Blood and Lymph Systems	182 182 183
Surgery of the Chest		Blood Vessels	183
Chest Wall and Breast Trachea Lungs and Pleura Heart and Lencardium Ecophagus and Mediastinum Miscellano ous	168 168 169 169	Blood Transfusion Lymph Glands and Lymphatic Vessel Surgical Technique	184
	,	Operative Surgery and Technique Postoperative Treatment	189
Surgery of the Abdomen Abdominal Wall and Pentoneum Castro Intestinal Tract Liver Gall Bladder Pancreas and Spicen Miscellaneous	169 169 171 172	Antiseptic Surgery Treatment of Wounds and Infections Anasthesia Surgical Instruments and Apparatus	185 186 186
		Physicochemical Methods in Surgery	
Gynecology Uterus Adneval and Penuterine Conditions External Genetalia Miscellaneous	173 1 3 1 4 1 4	Roentgenology Radum Viscellaneous Miscellaneous	186 187 187
		Clinical Entities—General Physiological Conditions	187
Obstetries Pregnancy and Its Complications I abor and Its Complications Puerpernum and Its Complications Newtorn Miscellaneous	175 1 6 1 7 177 18	General Pacternal Protozoan and Parasatic Infections to ns Ductless Glands Sur,ical Pathology and Diagnosis Fapermental Surgery Ho pitals Medical Education and History	187 188 189 189



MUTHORS

OF THE ARTICLES ABSTRACTED IN THIS NUMBER

Allen I' 137 Illen N M 1 0 An Jerson I R 108 Babcock W W 143 Babcock W W 150 Bailey H 144
Bailey P 119
Baker T 154
Balfour D C 12
Barrett Lady 146 Barron M L 130 Lasset A 143 Bauer C P 137 Beretervide J J 161 Billings V I 135 Boot G W 122 Korra E 107 Brown J H 145 Brown R G 143 Fuchwald 162 Barden V G 125
Burky F I 1tt
Cayl r H D 149
Chapman J F 130
Chute V I 153
Clark N T 109 Clerf L H 122 Copher G H 133 Copher G H 133 Crew F 4 E 146 Cushing H 1 9 Cutter I 5 103 Denuy H E 11 Dani ls I 162 Daillio De Massary I 150 Dent n J 141 1) 51 H 13 1) K B M 133 Di kson I D 135 D 1 1 1 B 143 Donovan I 161 Doughty J F 161 Duglass VI 140

Dragstedt C A 129 Duke Flder W S 10) I apleton W I 117 Lberts I M 126 Engers H E 162 Edgers H E 162 Latrar I k P 139 Eigi F A 113 Flagg P J 146 Flandrin P 159 Fowler I P 113 Fredet I 124
Fredet I 124
Fulterton \ 153
Fulton J F 120
Galla, her W J 129
Garvin C II 154
Gemmell A A 139 Cifford S R 108 109 Ginsburg L 129 Goldman I B 107 Goodall J R 146 Gordon C A 145 Grove W E 111 Guern P 143 Gunther L 156 Gutterrez R 152 Guyer M F 162 Hagedoorn \ III Hagedoorn V III
Handley W S 161
Harris A 149
Harris J W 145
Harvey V K 161 Haselbauer I 161 Henschen C 135 Herrmann I G 12 Hertz J 140 Higans G M 132 Hill I 110 Hillebrand II 134 Hofbauer J 144 Holderman II II 158 H rder Sir F 146 Horsley J 225 Howard H J 111 Howarth W 113 Hullstek H J 131 Hutchison R 135

Ilyman \ 152 Ioslin E I 114 Kincarl H I 153 Klein E 129 knipfer A 150 Koontz \ R 124 Kubie L S 120 I ahey F II 114 Larimore J W 131 Lesné E 124 Iucio B V 143 Ivnch F W 144 Mann I C 111 Markoff V 154 Marlow S B 111 Martin E 125 Masson J C 137 Masson J C 137
Mathicu A 144
Maybaum J L 107
Mayneord W V 150
McIntosh C A 128
McKabann C F 155
McLeao A J 120
McVurrich J P 130
Meyer A W 156
Mitchell R 148
More T S 126 Moise T S 126
Morton J J 159
Mowat G T 140
Muller G I 121
Murphy G T 132 Novak E 141 Owings J C 128 Lacha K R 160 Lancoast H K 119 Papin M 152 Parsons E 137 learse II E Jr 15) I inev A 159 Lotter C 151 Rechniewski C 161 Reichert I L 120 Reif M R 121 Rembard 162 Leynolds I C 113 Rice T B 161

Richter H M 134 Roberts W 1 146 Rones B 110 Schall LeP A 123 Schausser G C 144 Schillings M 150 Scholl A J 155 Shaw W 130 Simon H E 137 Skillern R 11 113 Slve M 162 Smith R E 123 Smith R K 132 Smith W S 141 Stewart F W 163 Stewart J P 113 Stone F 154 Stone H B 128 Sugiura K 162 Taylor J 157 Taylor R T 158 Thei F V 159 Thompson L 113
Thomson Sir St C
Tisdall F F 130 Todd H C 107 Traut II F 137 Tutker 162 Tutner A L 113 Van Wagen n W P 118 Wallace J O 157 Walton A J 125 Ward G G 139 Watson B J 146 Waugh G F 124 Weidlein I F 122 Weinberg J A 128 Wheeler J M 108 Walls B C 131 Wiseman M 146 Wolfe S 1 141 Woods A C 110 tts Yates A L 114 Fimmerman L M 134 Zimmermann E L 110



INTERNATIONAL ABSTRACT OF SURGERY

LEBRUARY 1929

LANDMARKS IN SURGICAL PROGRESS

BY IRVING S CUTTER M D Sc D CHICAGO Dean Northwestern U 1 e s ty Medical School

NEPHRECTOMY -ERASTUS B WOLCOTT

THE ease and comparative safety of the present day operations of nephrotomy and nephrectomy but feebly mir for the position of surgery of the kidney a century ago Samuel Cooper' in his Dictionary of Prac tical Surgery2 defines nephrotomy is an operation of cutting a stone out of the kidney 3 proteeding which perhaps has never been actually put into practice Numerous instances are recorded of the extraction of kidney stones from abscesses about the kidney pointing on the external surface of the body and Cooper notes with regard to cutting into the that the deep situation

of this viscus will always be a strong objection to the practice In the Philosophical Trans actions for 1696 Charles Bernard's details the case of a Mr Hobson English consul at Venice successfully operated upon for a kidney stone by Marchettis' of Ladua in a two-stage opera tion with final incision into the kidney and the extraction of several stones Garrison quotes 'euburger' to the effect that Giuseppe Zam beccare a pupil of Francesco Redi (1626-1607)



FRATIS B W. LCOTT

performed experimental nephrec tomies on dogs. In a paper be fore the Medico-Chirurgical Society of London Thomas Smith advocated an incision reaching the pelvis of the kidney for the purpose of removing renal calculi Smith outlined a technique which does not differ essentially from that of today His paper was purely theoretical however masmuch as he had not per formed the operation which he described

The first nephrectomy on a human being was that performed by Erastus B Wolcott of Mil wankee Wisconsin on June 4 1861 The report of the opera

tion was written by Dr Charles L Stoddard of East Troy Wisconsin and published in The Phil adelphia Hedical and Surgical Reporter . The case occurred in the practice of Dr Stoddard in the vicinity of Fast Trov' and Dr Wolcott the leading surgeon of the area was called in con sultation

Dr Charles L Stoddard was born in Buffalo Yen York in 1836 He was orphaned at the early age of twelve years his father and mother dying of Asiatic Cholera He attended the Pennsylvania

ph tmy as M of T tight al Cal to Tanaseto Case [Lor phaload Ducase | th Kal y R mo al, to

ii 20 scatto f mD Charl II i Mard fMilw k ≽ Charl L todiard possens modils Mlw kee 4 2d myelMed in 101

Case of Encephaloid Disease of the Kidney Removal, &c

By CHARLES L STORDARD M D

On the 4th of June last, I was invited to sesset Dr. E. B. Wolcott of Milwaukie in the removel of a tumor from the abdomen of Mr. J. aged 58 years. On examination we found that the p tient was a tall anamic looking man of a peculiar cast of countena ce and cats a of of serious organic disease. He stated that he was of healthy parentage, a d had cond health until the appearance of the t moreix years before that time. The physician in attendance stated that f om the first appearance of the disease some irritation of the uri ary organs had existed but what the deposits were we were unable to learn as no reliable chem; cal or microscopical evidence was presented It was probable however from the stateme ts made that an album: oue deposit was the prin cipal o e

We found the tumor to be large filling the right hypothopair as region and pre long the adominal parates forms de about we nother from their natural level. On palpation it was a clear that it was semi-solid have ga ped cular attachment apparently toose of theself of the level with a more extensive attachment to the mosteror paretes.

Ha g no reliable data to form a d agnos so ther than the prese t state after duly con adering the patie te anxiety and his depri ation of general health we co cluded that an operation offered the o ly chance of

ultimate recovery at the same time we stated to the patient and his friends that the oneration was a serious one in his state of health Our conclusion was that we had here a cost of tumor of the liver press; gon the kidney and producing arratation sufficient to account for the albuminous deposit. After the admin stration of chloroform Dr Wolcott proceeded to the removal of the tumor by making a tocaica diagonally across it down to the perito cum which we fould to be very much thickened and slightly attached to it. He next made an i c. s on 1 to the tumor which we found to be an encephaloid mass. He then proceeded to free it from its extens; e posterior attachments, after which he found that the superior attachment was a very dense cord I ke structure about an inch in circ imference, and apparently pro ceeding from the posterior part of the liver Carefully tring the pedicle he se ered this con nect on with the knife and after removi g fore; n matter carefully from the abdomen brought the edges of the wound together with common autures and adhesive strips which was the only dressing used. After the p tient was f ee from the effects of chloroform mor phia and campho were administered to suffi c ent qua tities to quiet irritation a d produce zleen.

The tumor we ghed about two and a half pou ds a d on incisi g it freely we found un doubted e idence of its bei g a kidney from a small po tion of its upper port on which had not degenerated showing the tubules and a

port n of the pel is of that

The patient lived fiftee days after the opera
to and ded appa nily from exhausto
caused by the gest amond of supportation
which ecessarily followed

Facsimile of Dr. Stoddard's original report of Dr. Wolcott's case

Medical Colleget in Philadelphia from which he graduated with the degree of M D in 1860 sub sequent to which he served a residency in the Philadelphia Ceneral Hospital (Blockley) He first located at Frie Pennsyl vania removing to Wisconsin in 1865 where he served successive ly as physician and surgeon the communities of East Troy White water and LaCrosse Later in life he removed to San Bernard ing California where his death occurred in 1001

Dr Frastus B Wolcott2 was born October 18 1804 in Benton Yates County New York His

parents were from Litchfield Connecticut He commenced the study of medicine when about eighteen years of age under the direction of Dr Joshua Lee a prominent practitioner of central New York Subsequent to a period of practice chiefly in South Carolina he entered (1830) the College of Physicians and Surgeons of the Western District of New York' at Fairfield receiving his M D degree in 1833 On January 1 1836 he was appointed assistant surgeon in the United States Army and not long thereafter was ordered to the I ost at Mackmaw where he married the daughter of Michael Dousman a fur trader Fort Macki nac built by the French in 1712 came into pos sussion of the United States by the Treaty of Paris in 1783 was captured by the British in 181 and restored to the United States by the Treaty of Chent in 1815 From 1820 to 1840 it was one of the principal stations of the American Fur Company. The post was evacuated by the United States troops on June 10 1837 though subsequently re occupied Dr Wolcott resigned his arms commission April 15 1839 and settled in Milwaukee Wisconsin where he practiced his profession until his death January 5 1880 His

P 31 as Midcal Clig ong at 3 signs th Midcal Clig ong at 3 signs th Midcal Might start with the Middal Midcal Midc ted the arm type first B. W. K. H. M.D. f. M. W. k. H. T. Sections of h. M. T. M. Sections of h. M. T. M. H. T. M. T. of the 3 and downshed for tw types, years, a ring winner that a consistent with the second of the se



CHARLES L STODDARD

first wife died in 1860 and in 1860 he married Laura J Ross M D one of the early women graduates in medicine

Dr Wolcott was a prominent member of the early Territorial and State Medical Societies He was also one of the members of the Milwaukee County Med ical Society at the time of its organization in 1846 and was present when it reorganized in 1870 after a long interval of in action. He was among the orig mators of the first local soci ety the Milwaukee City Medical Association in 1845. At the time

of his advent in Milwaukee Dr Wolcott brought a good reputation as a sur geon which deservedly increased with the passing years He possessed keenness and quickness of perception was a neat and dextrous operator prompt in action fertile in expedient untiring in care and attention Dr Wolcott was not only actively engaged in his profession, but held many offices of trust and honor in the city and state He was made Surgeon General of the State militia in 184 and Major General of the first division of Wisconsin militia in 1846 a member of the Board of Regents of the State University in 1850 a member of the Board of Trustees of the North western Mutual Life Insurance Company (or ganized in 1857) in 1858 and soon after became its first consulting medical director. He was appointed one of the Trustees of the State Insanc Hospital in 1860 and a member of the Board of Managers of the National Homes for Disabled Soldiers in 1866 which position he retained until his death. Immediately after the attack on Fort. Sumter he was appointed Surgeon General of the State and traveled much to further the interests of the troops visiting them on various battlefields In 1867 he was appointed one of the Representatives of Wisconsin at the International Exposition in Paris

We must however regard the work of Gustav Simon (1824-18,6) of Heidelberg as laving the scientific foundation for the operation of ne phrectoms Adistressing case of urmary fistula re sulting from ovariotomy having come under his care and all resources having failed to relieve the patient the advisability of extirpating the kidnes suggested itself Before however such an opera tion could be resorted to it was neces ary to ascertain whether or not it was consistent with hie to suddenly withdraw the function of one

kidney and throw the entire labor upon the other Pathological records afforded many instances in which one kidney had been gradually rendered functionless by slowly progressing disease and where compensators hypertrophs had gradually become established without disturbance. But whether sudden withdrawal of one kidney would be tolerated had still to be proved by experiment upon animals For the purpose of clearing up this point Simon performed fifteen nephrectomies upon dogs and found (1) that the greatest risk of death was from peritonitis (2) that primary and secondary hamorrhage were less to be feared than he anticipated (3) that pyamia and embolism were not met with in a single case (4) that the effect upon the elimination of the renal excretion was not such as to lead to symptoms of uramia (5) no albuminum or hypertrophy of the heart resulted from the operation and (6) the remaining healthy kidney within a short time increased in size and was soon competent to perform the double duty suddenly imposed upon it. These

results encouraged Simon to perform nephrectom in 1860 eight years later than Wolcott. But as Garrison's says. He killed his econd patient by sepsis from a digital exploration.

Dr Wolcott's nephrectomy was as the account shows an operation of necessity. No clear cut diagnosis was possible and only on subsequent examination was the removed tumor mass found to be a diseased kidney. It will be noted that the patient died fifteen days after the operation apparently from exhaustion caused by the great amount of suppuration which necessarily ! !lowed ' Nevertheless this operation may be looked upon as marking a milestone in surgical progress The prompt publication of Dr Stod dard's report in a Philadelphia journal advised the surgical world of the feasibility of nephrectoms performed via the laparotomy route although at the time this patient and all those similarly situated faced that relentless surgical enemyinfection

HirfMI thdd 20 bss

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Todd H C Aseptic Cavernous Sinus Thrombosis
trch Giolaryngol 1928 ttl 138

Todd states that lateral sinus thrombosis is the result of extension by contiguity of tissue Following inflammatory processes within the temporal bone due to infection the membranous sinus becomes sur rounded by inflammatory tissue and frequently lies in a pool of pus The inflammation then involves the yem causing the intima of the vessel to throw out a sticky exudate which picks up the red and white blood corpuscles and other constituents of the blood and forms an aseptic thrombus. If the pus is not removed by prompt operation the vessel walls soon soften When this occurs the surrounding bacteria readily penetrate them and the thrombus becomes infected. A new syndrome is then presented and the blood picture is that of bacteramia If operation is not performed at this time the infected thrombus begins to break down and the symptoms and blood nicture are those of senticemia

Todd believes that all lateral sinus thrombi are assente during the formative period and that lateral sinus thrombi are not formed as the result of the direct passage of micro organisms into the lateral sinus or of an infected embolus into the sinus

He reports a case in which the patient developed first a mild infection of the spheroid sufficient to cause inflammation of the contiguous cavernous sinus and the intima of the cavernous sinus threw out suincient equidate to pick up the red and white bool relial and blood platelets top produce a thrombus However as the spheroidal sinus has a rather large coming for natural draining and spheroidal singer time the spheroidal sinus has a rather large robust to the spheroidal sinus has a rather

Maybium J L and Goldman I B Primary Jugular Bulb Thrombosis I a) goscope 1928 xxxx11 00

In primary jugular bulb thrombosis an infected thrombus is formed in the lateral dome of the jugular bulb. In the early stages the lateral and signoid muses are not affected. The authors review the chuncal a pecty of the condition and report nine chuncal a pecty of the

Primar, jugular bulb thrombosis should be con si lered in the diagnosis of cases with a history of millle ear suppuration a persisting septic tem

perature and septicemia otherwise unexplained 11 occurs most commonly in young children. The temperature ranges from 90 to 104 degrees 1. The organism responsible usually a hamoly to strepto condition. Of nonsdetable value in the local strepto condition of considerable value in the localizing of the affected sinus is a differential blood culture accurating to the method of Ottenberg. The technique calls for a culture from both internal jugular veins. The number of colonies grown from the culture of the sound side exceeds the number of colonies grown from the blood obstaned from the affected side be cause the obturating thrombus prevents the passage of organisms unto the assignment civil stand.

Prompt surgical interference is imperative. The operation should be done with minimal trauma. Ligation proximal and distal to the thrombus should be done and the sinus circetted and drained.

In the cases reviewed operation revealed a sclerosed mastord and an intact sinus wall which was gray and lusterless and contained an obturating thrombus

ANTHONY I SILA VI D

Borfa E Inflammatory Tumors of the Submaxil lary Gland (Contribute allo studio dei tumori inflammatori della ghian lola sottomascellare) I olici n Rome 1928 xxx scz chr 345

Borra reports a case of recurrent inflammation of the submanilary gland in a woman twenty five years of age which began about five years ago with evert and difficulty in swallowing. At first, conservative treatment caused the condition to receive leaving only via induration of the gland but in the last attack the swelling had not yielded to it.

On its removal the tumor proved to be an inflammatory neoplasm of the submaxillary gland this being shown by small cell infiltration. The operation was followed by uneventful recovery.

The etology of inflammatory tumors of the submanilary gland is unknown. The neoplasms occur as a rule in adults and more frequently in males than in females. It is generally agreed that the inflammation is of a bacterial nature, but the causative microorgania m has never been solated.

In the beginning the condition is apt to be contused with a true tumor. However, the inflammatory tumor grows toward the skin rather than toward the foor of the mouth grows more down than a true tumor and does not affect the general health or cause gland metastases. Sy hills can be excluded by biological and therapeutic tests.

If the inflammators mass is removed the prognosis is good. The only treatment is surgical. Removal

from the exterior is preferable to removal through the mouth as it gives a better opportunity for radical extirpation and good drainage

ALDREY G MORGAN M D

EYE

Wheeler J M Pulsating Exophthalmos Atlantic # J 1928 xxx1 812

Wheeler reports five cases of pulsating exoph thalmos and draws the following conclusions

1 As pulsating exopthalmos is essentially a progressive condition practically all cases should be subjected to treatment even when the pain is neg

ligible and the head noises cause little annovance 2 Digital compression should be begun as soon as the diagnosis is made. There is a remote possi bility of repair of the arterial lesion by organization and in any case compression is proper preparation for ligation of the common carotid Digital compression may be safely practiced several times a

day for periods of fifteen minutes 3 If the symptoms are severe prompt operation and generous doses of an analgesic (morphine) may

be necessary

4 Incomplete blocking of the common carotid on the affected or more affected side is usually in order as a first operative step. Later complete blocking may be effected with section of the artery 5 If further relief is necessary the second com-

mon carotid may be operated upon in the same way after a few weeks and after preparatory digital compression. If the bruit is localized in the region of the superior ophthalmic vein this vein should be ligated in preference to the second common carotid

- In any case with considerable protrusion secure adhesions should be obtained between the lid margins and firm pressure applied with a gauze dressing and pressure bandage. In this way the protrusion can be held in check and the cornea safe guarded The pressure bandage is not safe without accurate apposition of the lid margins by sutures (if for only a few days) or by intermarginal adhesions (if for a considerable period) Three firm adhesions about 4 mm long will probably meet the require ments Plaques of epithelium the size of the desired adhesions should be removed from the lid margins above and below in the middle and midway between the middle and two ends of the palpebral fissure and the denuded areas brought into snug apposition by double-armed sutures passed through them which enter the skin surface of the upper lid near the mar on and emerge through the skin surface of the lower hid near the margin These sutures should be left in for five days and the patient should not be allowed to open the eye for five days more At least during this ten day period a firm pressure dressing should be kept on Ordinarily the intermarginal adhesions should be left for several months
- Postmortem examinations should be made more frequently and the pathological findings re LESLIE L McCoy M D ported in detail

Anderson J R Reconstruction of Contracted Eve Sockets J College S rg Australasia 19 8 1 1 2 In the operation described the lids are first freed from the orbital fascia by incising the conjunctiva above the upper and below the lower tamus as much conjunctiva as possible being left attached to To obtain good exposure stout silk the hds threaded on a needle is passed through the his from the under surface and tied over a small section of rubber tube and then passed through the lid again Three such sutures are placed in each lid In mak ing the upper inci ion it is advisable to save the levator palpebra superioris. The lower incision ex tends along the orbital floor from canthus to canthu

All scar tissue is carefully excised The guides throughout the operation are the re quirements of a suitable artificial eye. A mould is made of dental way sterilized in Ivsol This consists of a pad with a handle in the center of the external surface The mould should fill the socket so com pletely that the lids will just meet over it Before the mould containing the graft is inserted the socket must be tightly padded to lessen the hamor rhage Sutures are never required. The graft is of the Thiersch type cut from the inner surface of the thigh or the deltoid region. It is placed with the superficial surface against the mould and the edge meet around the foot of the handle The lids are retracted and the mould is inserted and presed carefully into the upper forms. The lids are then drawn over it and the sutures tied while it is pressed Three pad are firmly tightly into the socket strapped over the lids and a pressure bandage is carefully applied The other eve is covered with a separate bandage

After the operation both eves are kept banda ed for four days The dressing is then changed and the lids are painted with mercurochrome to further dressing is necessary until the seventh day. The sutures are then cut and removed and strapping is applied to keep the lids closed On the tenth day the mould is removed washed in saline solution and re inserted The lids are kept strapped until the third week when the mould is replaced by large artificial eye The final eve i inserted at the

end of a month The author emphasizes the importance of care in the treatment of scar tis ue perfect fitting of the mould immobilization of the graft for at least seven days and the wearing of an oversized eye in the I ESLIE L McCoy WD socket for four weeks

Gifford S R The Acute Rise of Tension Follow ing the Use of Adrenalin in Glaucoma 1m Ophil 19 8 x 3 5 628

It is generally known that adrenalin while having no effect on the pupil or tension when dropped irto the normal eye produces dilatation of the pupil with a marked decrease in intra ocular tension when it! injected beneath the conjunctiva Cifford soaks a small cotton pledget in adrenalin and places it in the upper cul de sac This is as effective as injections The eye is first given two instillations of 2 per cent butyn. A decrease in the tension is susually noted within one or two hours and after twenty four hours the tension is often between to and 12 mm. (Schiotz). It then gradually rises to about normal within the next day and often returns to its previously elevel above normal within a few days. In a fair number of cases it may then be kept normal for a much longer period by the use of esertic which previously was not effective.

Gifford has found that adrenalm or glaucosan is of model in chronic simple glaucoma but is contra indicated in acute inflammatory hamorrhagic and absolute glaucoma and in glaucomatous ititis. The danger of producing an attack of acute glaucoma is due to the adrenalm invidriasis. This can be prevented or decreased by the use of miotics before and

after adrenalin treatment
The author draws the following conclusions

In chronic simple glaucoma adrenalin (or glaucosan) is of definite value as an adjuvant to other remedies I is adapterous in inflammed eves and eves with damaged vessels. Hence it is contraindicated in acute glaucoma in inflammatory and hemorrhage glaucoma and in absolute glaucoma.

- 2 It is contra indicated also in glaucomatous inits
 3 The danger of provoking acute glaucoma is due
- to the mydriasis

 4 There is more danger of provoking such at tacks even in simple glaucoma than previous reports indicated
 - 5 Mydrissis should be prevented or decreased by the free use of miotics before and after adrenalin treatment I estig I McCov M D

Duke Elder W S The Etiology of Glaucoma Prit W J 1928 ii 230

The first matter to be settled in the problem of intra ocular pressure is the nature of the proc esses controlling the formation of the aqueous aqueous is not a secretion nor under normal cir cumstances a transudate. It is a dialysate of the capillary blood formed by the same processes as the other tissue fluids The process is modified however by the relative impermeability of the ocular capil laries The fluid contents of the eye must be kept clear and practically free from colloidal micelles This is accomply he i by making the car illary wall relatively impermeable. I dialysate in combinium with its parent fluid must have a very precise and lefinite chemical composition osmotic pres are reaction electrical potential and relationship between its hydrostatic pre sure and that of the parent fluid. The aqueous in all conditions is in complete thermodynamical equilibrium with the plasma-chemically osmotically electrically and hy frostatically. Its formation 1: a physicochemical process

The second fundamental determination to be made in the study of intra-ocular pressure is the nature of the circulation of the aqueous humor

Three factors entering into this are (1) a continuous metabolic interchange between the aqueous humor and the blood through the capillary walls (2) inter all thermal circulation caused by convection currents in the antenor chamber and most important a through and through pressure circulation and (3) the changes in the volume of the contents of the globe which occur in the vitreous

The vitreous is a gel bathed in aqueous The main determinant of its volume is the degree of hydration

of its colloid particles
If glaucoma is considered merely as a pressure
symptom the two main factors in its etiology are
(i) a derangement of the capillary circulation in
volving a capillary dilatation which produces a nie
in capillary pressure or increased permeability of
the capillary walls which allows an excess of col
physicochimical nature in the autrous. These two
factors act either alone or together and there
efficiency in causing a permanent rise of pressure
depends directly upon the efficiency of the drainage
channels in the region of the angle of the tirs.

LESLIE I McCoy M D

Gifford S R Ocular Complications of Diabetes Med Clin \ Am 1928 xii 423

The best known ocular complication of diabetes is cataract but the author believes that as a large percentage of diabetic cataracts occur after the fortieth year of age a time of life when ordinary senile cataracts also develop the importance of cataract as a complication of diabetes is overestimated He states that a cataract should be regarde ! as a diabetic cataract only when it conforms to the type occasionally seen in young diabetics. This type is characterized by the appearance under the cap sules of both lenses of fluid vacuoles which progress rapidly. A condition allied to diabetic cataract is the occurrence of remarkable changes in refraction during the course of diabetes. This is probably due to a change in the osmotic pressure of the blood The high blood sugar allows fluid to penetrate the capsule causing the lens to swell with resulting mvodia

Changes in the intra ocular tension occur in disbetes. With high blood sugar and acidosis hypotons is the rule. Two types of retinal lesions are seen (i) white patches which are usually small and single or occur in small groups and (2) harmorthages. It is probable that the arternoselerous which acrom printes diabetes is an important factor in the etiology of the retinities. The prognosis for life and vision is much better in these cases than in cases of allow insure retinities. Liwich Cores MD

Clark N T Infection of the Eye In crna J M d & S rg 1928 xh 436

Clark reports the case of a fourteen year-old boy in excellent general health who was struck in the eye by a piece of rock while he was working in field. The wound penetrated the cornea but did from the exterior is preferable to removal through the mouth as it gives a better opportunity for radical exterpation and good drainage

AUDREY G MORCAN AT D

Wheeler J M Pulsating Exophthalmos Atlantic W J 1948 xxvi 812

Wheeler reports five cases of pulsating exoph thalmos and draws the following conclusions

1 As pulsating exoptibalmos is essentially a progressive condition practically all cases should be subjected to treatment even when the prin is negligible and the head noises cause little annotance

2 Digital compression should be begun as soon as the diagnosis is made. There is a remote pox i bility of repair of the arterial lesion by organization and in any case compression is proper preparation for ligation of the common carotid. Digital compression may be safely practiced several times a day for periods of fifteen minutes.

3 If the symptoms are severe prompt operation and generous doses of an analysis (morphine) may

be necessary

4. Incomplete blocking of the common carotid on the affected or more affected side is usually in order as a first operative step. Later complete blocking may be effected with section of the artery

5 If further relief is necessary the second common carotid may be operated upon in the ame way after a few weeks and after preparatory digital compression. If the bruit is localized in the region of the superior ophthalmic vein this vein should be figured in or ference to the second common carotid.

In any case with considerable protrugor secure adhesions should be obtained between the lid margins and firm pressure applied with a gauze dressing and pressure bandage. In this way the protrasion can b beld in check and the cornea sale guarded. The pressure bandage is not safe without accurate apposition of the lid margins by sutures (if for only a few days) or by intermarginal adhesions (if for a con iderable period) Three firm adhesions about 4 mm long will probably meet the require ments Plaques of epithelium the size of the desired adhesions should be removed from the lid margins above and b low in the middle and midway between the middle and two ends of the palpebral fissure and the denuded areas brought into snug apposition by double-armed atures passed through them which enter the skin surface of the upper lid near the mar gin and emerge through the skin surface of the 'over lid near the margin. These sutures shoul t be left in for five days and the patient should not be allowed to open the eye for five days more. At least d ring this ten day period a firm pressure dressing should be kept on Ordinarily the intermargir al adhesio; s should be left for several months

7 Postmoriem examinations should be made more frequently and the pathological findings re ported in detail Lestie L McCoy M D Anderson J R Reconstruction of Contracted Eye Sockets J Colleg Surg 1st 1 days 1928 1,1

In the operation described the lide are fast less from the orbital fasts by incarely the coastoms above the upper and below the lower trans a much conjunction as a possible being fest statistical than the lide. To obtain good expo ure start six threaded on a needle is pressed though the lish from the under surface and tired over a mill sector of rother tube and then pass of through the life problem than the surface and tired over a mill sector of rother tube and then pass of through the life part of the surface and the s

The guides throughout the overation are the requirements of a syntable artificial eve. A mould is made of dental was sterilized in 1, sol This consult of a pad with a handle in the reater of the external surface The mould should fill the socket a com pletely that the lids will just meet over it. Before the would containing the graft to inse ed the socket must be tightly padded to les en the hamor rhage Sutures are never required. The graft is of the Thiersch type cut from the inner surface of the thigh or the deltoid reg on It is placed with the superficial surface against the mould and the edges meet around the foot of the handle. The lid are retracted and the mould is inserted and pressed carefully into the upper former. The lids are then drawn over it and the sutures tied while it is pres et tightly into the socket. The pads are browly strapped over the hid and a pressure bandage is carefully applied The other eye is covered with a

separate bindage. Weet handage to the control of th

The author emphasizes the importance of care in the treatment of serv it save perfect fitting of the mould immobilization of the graft for at least seen this and the wearing of an oversized eye in the socket for four veels. Lesur L McCo M 19

Gifford S R The Acute RI e of Tension Following the Use of Adrenalin in Clincoms im J Ophile 1928 1 3 628

It is generally known that adrenium which haves no effect on the pupil or ten ion when dropped into the normal eve pro-luces dilatation of the pipil is a marked decrease in intra ocular ten ion when in-injected beneath the conjunctiva Gifford soaks a small cotton pledget in adrenalm and places it in the upper cul de sac. This is as effective as supection

Howard H J The Intravenous Use of Typhoid Paratyphoid Vaccine in Eye Diseases Am J Oblib 1928 xt 3 5 685

Howard reports cases of ocular disease in which intravenous injections of it phod paratyphods vactine give excellent results. The impections were beneficial only when their were followed by fever Contra indications to the treatment are (1) a temperature more than 1, degree of the product of

Hagedoorn A The Early Development of the Endothelium of Descemet's Membrane the Cornea and the Anterior Chamber of the Eye B il J Ophil 1928 vii 479

The author points out that there is no reason who we should assume that the formation of the structures of the anterior chumber in man is different from their formation in the higher animals. In several of the higher animals the corneal epithelium is the first structure anterior to the lens to be definitely differentiated and even in very young embryos it has a basal membrane. Between it and the lens an anterior vitrous has been definitely established. The little is excludemal in origin springing from the basal cones of (i) the epithelium of the lens (2) the margin of the optic cup and (3) the surface ecto

In the lower forms of vertebrates a primitive cor nea of hyaline membrane is formed early. Posterior to it the endothelium grows in as the first mesoder mal element of the future cornea and then the strom; cells grow in edgewise between it and the corneal epithelium. At the same time or a little later as the endothelial cells grow in behind the surface ectoderm as a compact layer other mesoder mic cells though moderate in number invade the anterior vitreous, taking over the nourishment of its fibers Under their influence the anterior vitreous changes its original aspect the fibers becoming much thicker Because of the great vulnerability of these anterior vitreous postendothelial fibers fixatives cause shrinkage with the formation of artificial spaces Previously these spaces were confused with an anterior chamber. In the very early stages there is no anterior chamber

The first meso lermic element of the cornea is the endothelium of Descemet's membrane. This endo thelium is entirely independent of the corneal stroma cells, which are mesodermal epithelial cells.

TROMAS D ALLEN M D

Burky E 1 and Woods A C Lens Proteinthe Isolation of a Third (Camma) Crystallin

frek Ophih 1928 bit 464

The authors have demonstrate I that lens I rotein is composed of three immunologically de interf fractions alpha beta ant gamma crystallin. The alpha and beta crystallins are pseudoglobulins antigenically active organ specific and larking species.

specificity. The gamma crystallin is an albumin which is isolated from the beta crystallin. The beta crystallin must therefore be considered a beta gamma complex. VIRGIE WISCOTT VID

Marlow S B A Case of Hæmangloma of the Chorold 1rch Ophth 1928 lvn 484

Marlow reports a case of hamangoma of the choroid in a mineten year old boy who had a nevus on the left side of the forehead. The appear ance of the retina suggested detachment due to exudate. Vision was reduced to hand movements and with an increase in the tension a secondary custareat appeared. As the pain became progres sively more severe thee; e was removed. The pathological examination was made by Verhoeff.

VIRCIL WESCOTT M D

Mann I C The Process of Differentiation of the Retinal Layers in Vertebrates Brit J Oplik 1928 NR 449

The author summarizes the general principles of the process of differentiation of the retinal layers in vertebrates as follows

The ganglion cells are the first to differentiate
The amacrine cells are intimately associated
the ganglion cells and only secondarily sen

with the ganglion cells and only secondarily sep arated from them 3 The inner nuclear layer is a complex layer con taining elements derived from both the primitive

retinal layers (i.e. the inner and outer neuroblastic layers)
4. The percipient elements are the last to differen

trate
From a study of secondary modifications of these

principles she draws the following conclusions

The supporting tissue differentiates relatively

late in phylogeny
2 The abbreviation of stages can occur without

modification of the general plan
3 Throughout phylogeny there is a tendency
toward improvement of function by crowding to
gether of the percupient elements and the development of special areas of acute vision. The differen
tation of these special areas however always fol

lows the original general plan
THOMAS D ALLEN M D

EAR

Grove W. E. Otological Observations in Traum a of the Head A. (Hnical Study Based on Forty Two Cases 1 ch. Of laryngol 1928 viii 240

Grove states that persons who have sustained an injury of the head should be examined as soon after the accident as possible an 1 at regular intervals over a con iderable period of time.

The severity of the injury does not bear any direct relation to the development or degree of cochlear and vestibular symptoms

Most injuries to the head in civil life are caused by a broadly acting force which compresses the skull not cause incarceration of the iris. The physician who was first consulted prescribed simply a boric acid wash Clark first san the patient sevent; two hours after the accident. The eye was then inflamed and presented a yellow appearance with a greenish tinge extending over the iris and the structures just posterior to the cornea. The tissues were There was no definite friable brittle and dry pustule but all of the tissues of the eye were swollen and there was a rapidly spreading gedema with in duration and a small area of gangrene The box appeared very sick. He seemed languid stupid and tired and his temperature was oo s degrees F On the following day his temperature was a little higher and the gangrenous process in the eve had progressed The eye was removed under general anas thesia On the same morning anthrax bacilli were found in smears The boy recovered The source of the infection was found to be the wool in a base ball glove which the patient had received as a prize I VM AV A COPPS AT D.

Woods A C Protein Therapy-Specific and Non Specific-in Ophthalmology 1rch Ophth 1928 1111 488

There are four phases of specific therapy in ophthalmology viz the u e of (1) tuberculin (2) bacterial vaccines and their derivatives (1) uveal pigment in sympathetic ophthalmia and (4) lens protein in diseases of the lens. In the diagnostic use of tuberculin the object is to determine the presence or absence of an unusual degree of tuberculin hyper sensitivity without causing a focal reaction in the

Autogenous vaccines have not proved of much value except possibly in cases of furunculosis of the lids and blepharitis Recently the antivirus of staphylococci and streptococci has given brilliant results

In active sympathetic ophthalmia there is hyper sensitivity to uyeal pigment and pigment therapy appears to be of very definite value

The status of lens protein therapy is highly con troversial. Much is now known about lens sub stance but very little about the therapeutic ad ministration of lens protein. Non specific protein therapy in the form of milk anti-diphtheria serum and typhoid vaccine has been employed extensively of late but such treatment is specialized. The choice of protein and the dosage must be governed by the reaction desired the condition of the inflammatory lesion and the patient's general condition

VIRGIL WESCOTT M D

IIII E Tuberculosis in Relation to the Eye So th M J 1928 XX1 607 Woods A C and Rones B The Therapeutic Use of Tuberculin in Ocular Tuberculosis Sorth M J 1928 X11 613

HILL states that tuberculosis may occur in any tissue of the eye in an otherwise apparently healthy person free from indications of tuberculosis elsewhere

in the body. Tuberculin if properly used and in the healing process. These facts are so little appreciated by those who make the general study of the patient in collaboration with the specialist that active to operation between the internist and ophthalmologist is often limited

Woods and Roves report their experiences with tuberculin used as a diagnostic and a therapeutic

The patient is examined thoroughly for tuberculous and non tuberculous lesions elsewhere in the body and if any such lesions are found they are treated The intracutaneous tuberculin test is em ployed o our mgm O T being used as the initial dose If necessary the dose is increased to 0 i mgm For treatment a broth filtrate is used Beginning with 0 000 000 1 mgm the dosage is gradually in creased until about 60 mgm can be given withou causing a reaction

Of forty two patients treated in this was 10 per cent showed systemic evidences of tuberculosis 40 per cent showed evidence of other foci of infection 25 per cent had definite recurrences of the ocular disease after initial healing 45 per cent appeared healed 45 per cent showed definite improvement and to per cent showed no improvement. None of the patie is

While improvement in the chinical picture may be expected early true healing requires a rather lor,

The early injections must be minute and duning treatment the eyes must be under constant observa tion while the local reaction determines the dosage VIRGIL WESCOTT MD

Zimmerman E L The Rôle of the Arsphena mines in the Production of Ocular Lesions trek Oak h 1928 lyu og

Zimmerman states that following the administra tion of arsphenamines three types of ocular reaction may occur

A direct toxic effect of the drug on the normal The only true toxic reactions involving the normal eye occur in the form of conjunctival by peræmia Such reactions may damage vessels al ready involved by cardiovascular and renal dies. but there is no evidence that a normal vescel nerve or retina is ever affected

2 Jarı ch Herxheimer reactions in the form of an intensification of an active lesion the activation of a quiescent lesion or changes in structures previously presenting no clinical evidence of a pathologial process

3 Seurorecurrences and iridorecurrences of ocular lesions following insufficient treatment of primary or secondary syphilis with the arsphena mines In resuming activity the surviving organisms encounter a defenseless host and the resulting read tion is a marked one producing a neurorecurrence in the form of an optic neuritis paralysis of the internal or external ocular muscles or an indorecurrence

VIRGIL WESCOTT MD

Howard H J The Intravenous Use of Typhoid Paratyphoid Vaccine In Eye Diseases Am J Ophth 1928 xt 3 5 685

Howard reports cases of ocular disease in which intravenous injections of typhoid paratyphoid vacone gave excellent results. The injections were beneficial only when they were followed by fever Contra indications to the treatment are (1) a tem perature more than 12 degree C above normal () low vitality (3) any condition in which the added strain occasioned by a protein shock might not be well borne by the heart LYMAN A COPPS M D

Hagedoorn A The Early Development of the En dothelium of Descemet s Membrane the Cor nea and the Anterior Chamber of the Eye Brit J Ophth 1928 xii 479

The author points out that there is no reason why we should assume that the formation of the struc tures of the anterior chamber in man is different from their formation in the higher animals. In sev. eral of the higher animals the corneal epithelium is the first structure anterior to the lens to be definitely differentiated and even in very young embryos it has a basal membrane Between it and the lens an anterior vitreous has been definitely established. The latter is ectodermal in origin springing from the basal cones of (1) the epithelium of the lens (2) the margin of the optic cup and (3) the surface ecto

In the lower forms of vertebrates a primitive cor nea of hyaline membrane is formed early Posterior to it the endothelium grows in as the first mesoder mal element of the future cornea and then the stroma cells grow in edgewi e between it and the corneal epithelium. At the same time or a little later as the endothelial cells grow in behind the surface ectoderm as a compact layer other mesoder mic tells though moderate in number invade the anterior vitreous taking over the nourishment of its fibers Under their influence the anterior vitreous changes its original aspect the fibers becoming much thicker Because of the great vulnerability of these anterior vitreous postendothelial fibers fixatives cause shrinkage with the formation of artificial spaces Previously these spaces were confused with an anterior chamber. In the very early stages there is no anterior chamber

The first mesodermic element of the cornea is the endothelium of Descemet's membrane. This endo thelium is entirely independent of the corneal stroma cells which are mesodermal epithelial cells

THOMAS D ALLEN M D Burky E L and Woods A C Lens Protein-

The Isolation of a Third (Gamma) Crystallin trek Ophik 1928 l ii 464 The authors have demonstrated that lens protein is composed of three immunologically distinct frac

tions alpha beta and gamma crystallin. The alpha and beta crystallins are pseudoglobulins anti genically active organ specific and lacking species

specificity The gamma crystallin is an albumin which is isolated from the beta crystallin. The beta crystallin must therefore be considered a beta gamma complex VIRGIL WESCOTT M D Marlow S B A Case of Hæmangioma of the

Chorold treh Obhth 1028 lvii 484

Marlow reports a case of hæmangioma of the choroid in a nineteen year old boy who had a navus on the left side of the forehead. The appear ance of the retina suggested detachment due to exudate Vision was reduced to hand movements and with an increase in the tension a secondary cataract appeared As the pain became progres sively more severe the eye was removed. The patho logical examination was made by Verhoeff

VIRGIL WESCOTT M D

Mann I C The Process of Differentiation of the Retinal Layers in Vertebrates Brit J Obhih 1028 XII 449

The author summarizes the general principles of the process of differentiation of the retinal layers in vertebrates as follows

- 1 The ganglion cells are the first to differentiate 2 The amacrine cells are intimately associated with the ganglion cells and only secondarily sen-
- arated from them The inner nuclear layer is a complex layer con taining elements derived from both the primitive retinal layers (i.e. the inner and outer neuroblastic
- lavers) 4 The percipient elements are the last to differen
- trate From a study of secondary modifications of these principles she draws the following conclusions
- I The supporting tissue differentiates relatively late in phylogeny
- 2 The abbreviation of stages can occur without modification of the general plan 3 Throughout phylogeny there is a tendency
- toward improvement of function by crowding to gether of the percapaent elements and the develop ment of special areas of acute vision. The differen tiation of these special areas however always fol lows the original general plan

THOMAS D ALLEN M D

EAR

Grove W E Otological Observations in Trauma of the Head A Clinical Study Based on Forty Two Cases 1rch Otolaryngol 1928 viii 249

Crove states that persons who have sustained an injury of the head should be examined as soon after the accident as possible and at regular intervals over a considerable period of time

The severity of the injury does not bear any direct relation to the development or degree of cochlear and vestibular symptoms

Most injuries to the head in civil life are caused by a broadly acting force which compresses the skull with or without causing fracture. This compressing force results in damage to the brain the cerebro spinal fluid, and the vascular system of the blood

as well as to the skull

In the skull the compressing force of the injury indis its greatest expression at the base because of the more or less unequal strength of the constituent parts of this portion. The middle fossa being weaker than the interior or posterior fosses is most often affected. The pursuand weakla attributed in the middle fossa takes the brunt of the injury to the bise and is frequently damaged.

Fractures of the temporal bone are days led into transverse fractures longitudinal fractures and avulsion of the tip of the petrous temporal bone the longitudinal fractures are the most numerous. The lab, mith it almaged by the concomitant con cussion and the fracture usually invokes the middle cussion with the fracture usually invokes the middle the pyramid at right angles and completely destroy both the vest bulked and the cocklea. Avulsion of the

tip of the petrous bone is relatively rare

The damage to the brain is caused by compact and as a point direction beneath the point of impact and at a point directly opposite. The damage done by the cerebrosymal fluid is caused by the compression of the lateral ventrucles which sets the fluid in motion to expend its force in a whitpool action in the fourth ventrucle. The damage to the blood vascular system consists in a state of traumatic prarilysis of the vasoconstructors with resulting stass of the cause of the traumatic prarilysis in the central vestibular area and probably also in the laby nuth.

In the temporal bone the chef findings at autopsy re hymorrhages. The intrivialsy inthine hemor rhages are always perily mphatic unless the capsule of the hly inth's fractured in which case they may be also endols imphatic. The region most frequently infected by these intralabyrathine harmorrhages is the scala tympan in the vicinity of the round win of the control of the control

The pathological changes in persons dving years after an injury to the head are atrophy of the nerve there atrophy of Cortis organ which is most marked in the besal coil and complete or partial filling of the inner car spaces and canals with ha him

connective tissue and bone

The results of experimentation on animals show that the effects of mild injuries are the same as though less marked than those found at autops in the temporal bones of human beings namely hemorphage in the inner ear most marked in the basal coil of the rochlea and in the region of the round window always in the properties of the round window always in space. Degenerative changes are seen also in the nuclear territory of the eighth nerve in the floor of the fourth ventrale affecting mainly the small cells of the nervis tra angularis the nucleus of von Bechteres the tuber cultum acusticum and the postenor corpor quadrigenima. These changes are probably due no the to vasomotor disturbances in this section produce stasis with subsequent destruction of tissue.

Hemorrhage from one or both ears occurred in nine of the cases reviewed. The author regards the as almost indisputable evidence of a longitudinal fracture of the temporal bone. It does not mean however that great damage to the function of the

ear will necessarily ensue

A cardinal swingtom of injury of the wishbiding system is vertige. The vertige to is estibilat in ongo if it has a rotary quality if at comes on in attack accompanied by nystagmus or if it is produced bending movements of the head. Other type of vertige after injuries to the head are apt to be rux rotic especially if they are constantly present lafter first two weeks or are accompanied by severn musica vomiting and great mental existing. The author is always strongly suspicious of a rei rosis if the patient compliants of constant headach and vertige after the first seek or two following and vertige after the first neck or two following and vertige after the first neck or two following

the injury

Spottuneous ny stagemus is another cardinal symptom of vestibular purpy. If it sundistrated biblined and if bilated and if bilated as more marked on one side. It always rotary horizontal in character. The author attributes it to a decompensation between the vestibular systems. Bilateral ny stagmus to the its sales is often seen in normal persons but is aleast of the purely horizonful type slangs equal more stagment of the property horizonful type slangs equal more undered by the head movements test. The author has been unable to formulate any rule for the deer ton of the vestibular nystagmus in his cues

Disturbances in the pointing reaction were present in twenty eight of forty two cases and constitute a part of the spontaneous vestibular system. Not much reliance can be placed upon them in detim which side is involved. This is true all of the

filling and Romberg reaction

The arritability of the labyrush to calone simulation was studied in thirty cases all of which prisoned spontaneous labyrunthine symptoms. Normal reactions were found in ten cases hips under case the contract of the contra

The Rinne reaction was positive in thirty fit cases negative in one case and not recorded in six cases. Bone conduction was shortened in teach four cases normal in six and not record it in teach traumatic deafness caused by injury of the head was found in thirty one of forty two cases. Complete deafness in one care was present in one case

In a large proportion of the case, the defect in the hearing was bilateral and a large number of the cases showed the upper tone range more affected than the lower and middle rangs. Of the thirty one protents with defective hearing twenty eight had symptoms referable to the vestibular apparatus.

[INDEX C BANNELL M D.

Fowler E P Marked Deafened Areas in Normal Ears trek Glola yngol 1928 viii 151

The author has frequently noticed a marked dip in the curve of the hearing graph between 1 coo and 5 coo cycles as depicted by audometer readings in otherwise normal ears. From this observation he concludes that in many otherwise normal ears marked deficiency of the control of the conmarked deficiency of these of the scale may occur respective of any detectable defects in the construction apparatus.

Four possible causes are (1) a limited central or cortical lesion in an area governing these frequencies (2) a nerve fiber defect of the section of the basilar membrane which normally detects these frequencies (3) a defect in the terminal nerve apparatus and (4) an anti resonance somewhere in the conduction mechanism. In the author's opinion, the latter two are nobably of most importance.

MANFORD R WALTZ M D

Stewart J P The Histopathology of Mastolditis Proc Roy Soc Wed Lond 1928 xx1 1743

In his discussion of mastoiditis Stewart includes not only inflammation of the pneumatic cells in the mastoid bone proper but also all extensions into neighboring bones

The initial change in the directly infected zone is a local rise in the blood pressure causing a dilatation of the vessels in the haversian systems and hyper rimis of the muco endosteum.

The next stage is characterized by osteoclasis in the haversian systems

The third stage is the period of active rarefaction of the bony wall of the pneumatic space by osteo class and perforating vessels. This is due to the new Dressure conditions.

The fourth stage consists in the regeneration of destroyed tissue by new bone formation

The whole inflammatory process is subject to phase change which may alter it from a condition of exulation with an increase in the intravascular pressure into a more proliferative condition

Both the disease and the regenerative pro esses progress from within outward

JAMES C. BRASWELL M.D.

NOSE AND SINUSES

Figi F A and Thompson L Rhinoscleroma J in M 4ss 1928 vcs 637

The authors report six proved cases of thino scleroma examined in the Mayo Clinic during the past eight and a half years together with the find

ngs of incteriol speal studies made in three of them Included in the group is probably the oil case of this disease in a native-born American which was diagnosed during life. The patient a voung man of Slavic parertage has never been outside the United States. In all of the cases the diagnosis was based on the history and clinical findings and was confirmed by honeys and demonstration of the Frach bacillus.

With the use of radium and deep noestigen ray, therapy marked improvement was noted even in patients in whom the disease had progressed to the stage of selectors. The radium applications were made externally over the affected area and about interct contact with the diseased itsue. In two cases it was necessary to open the traches an order to the contact of the case of the cas

When last observed four of the six patients were entirely free from chancal evidence of the infection. One patient who was apparently suffering from bronchial involvement at the time of examination later succumbed to the disease. Another patient

could not be traced

section

In the bacteriological investigation—three freshly isolated strains of the bacillus rhinoscleromatosis were studied according to the manual of methods of pure culture study prepared by the Society of American Bacteriologists Contrary to certain re ports in the literature these strains were as nearly identical as could be expected of three separate strains of the same species. After six months on artificial media the culture showed variation in sugar fermentation but on isolation only acid was produced in dextrose maltos mannite saccharose levulose galactose vylose arabinose ghamnose mosite salicin glycerol and trehalose There was no change in lactose inulin raffinose or dextrin It appears that the species is best identified by sugar fermentation as all other cultural characteristics are tho e of the genus

Turner A L and Reynolds F E Acute Sup puration in the Accessory Sinuses Cavernous Sinus Thrombosis Acute Leptomeningitis Death Autopsy J Lary & Otol 1918 xhm

To illustrate infection of the intracranial structures by direct extension through the bone the author reports a case of antrum ethimoid and sphenoid infection with direct extension through the ethimoid and sphenoid walls. This infection resulted in a leptomeringitus and cavernous sinus thrombosts as shown by autopsy and introscopia.

MAL FORD R WALTE M D

Skillern R H Chronic Ethmolditis Brit M J 1928 11 562 Howarth W The Conservative and Surgical

Treatment of Chronic Ethmoiditis Brit M J

Skillery divides chronic infections of the eth moid roughly into the suppurative and the non sup

purative types Those of the first type are character ized by a purulent secretion with a more or less uide spread citarrhal inflammation in the ethmo: I region and those of the second type by polypoid hyper trophy or true polyp formation. In some cases a combined form occurs The author gives also a more exact classification and discusses the various types in detail

Suppuration in one or more of the anterior cells i not an entity except in cases of purulent infection of the lining membrane of the bulla ethmoidalis. The posterior cells are more frequently the site of chronic disease These cells are larger and more numerous Their drainage can be easily interfered with by slight swelling of the nasal mucosa The combined type of infection involving both the anterior and the posterior cells is usually the direct sequela of an reute infection or a series of acute inflammatory dis-

In the hyperplastic type of ethmoiditis the eth moidal mucosa undergoes hyperplastic changes rang ing from slight degeneration of a small portion of the

lower border to the formation of sessile polypi The basic treatment of all sinus infections and particularly those in which the ethmoid is involve I is aeration and drainage. Skillern emphasizes the importance of conservatism in operative measures In the mildest cases of the suppurative type removal of the middle turbinate combined with treatment by medicated tampons is often sufficient

Complete exenteration is indicated when there is combined suppuration affecting the entire laby rinth The permanent ablation of polypi in hyperplastic ethmoiditis depends upon several factors The local tzed hyperplasia or separate polypi are usually re moved with the snare. The bony attachment should (2) cases in which the clotting time was prolonged also be resected

Complete knowledge of the regional and surgical anatomy is necessary. In the author's opinion, the secondary hamorrhage intranasal operative route to the ethmoid is the best and safest

HOWARTH states that no two ethmoids are alike I'wo clinical types of chronic ethmoiditis are recog nized (r) chronic catarrhal inflammation (polypoid degeneration) and (2) chronic suppurative inflam by arbonate in a glass of water twice a day

Polyni are to be regarded as the product of hyper plastic inflammation of the covering of the ethmoid hone Similar changes may be pre ent in neighboring tracts of the ethmoidal mucosa In some cases the Joslin E P and Lahey F II Diabetes and Ily polypus formation is due to primary disease of the mucous membrane covering the ethmoid. This is the simplest condition. In its early stages it may vield to the use of astringent solutions and the removal of the polypoid hypertrophy

Usually however the cases are not seen until the disaster inflammatory process has spread into the ethmoid The chief aim then should be to obtain free aeration and drainage. The removal of the diseased middle turbinate is indicated. In some cases a cure will reallt from this procedure alone but as a rule cases of primary hyperthyroxism and 27 7 per cent more radical treatment is necessary

In the chronic suppurative variety of ethn this polypi are usually absent 1 con errative attitule should be adopted In some cases removal of the middle turbinate followed later by a limited mor cellement of the diseased area will result in cure

In the author's opinion complete exenteration of the ethmoid cells is accomplished best by external operation. In obstinate cases this procedure gives a higher percentage of cures than any other treatment W M PATOY MD

PHARYNX

Yates A L Methods of Estimating the Liability to Fostoperative Hæmorrhage from Unsu tured Wounds (Following Tonsillectomy) Proc Roy Soc Med Lond 1929 10 1784

Lostoperative hæmorrhage from un utured wound in which the arteries have not been ligated occurs in two groups of cases. The first group in which the origin of the bleeding is arterial includes (1) cases in which an artery bleeds not at operation but afterward on the patient's recovery from snock (2) cases in which an artery bleeds on the patients recovery from deep anasthesia (chloroform mixture tend to produce this type of bleeding) (3) cases in which bleeding from an artery ceases at operation because of the decrease in the blood volume but begins again when the blood volume is made up by the tissues after the operation

The second group in which the bleeding is of capillary origin and due to deficient clotting time of the blood in ludes (1) cases in which the cio ting time previous to operation may have been normal but operation is followed by a compensated acidoes before the operation allows excessive hamorrhage during the operation and favors the occurrence of

In cases of compensated acidosis in which the clotting time is much prolonged the clotting time can be restored to normal by the administration of sufficient alkali to neutralize the urine. In the cases of adults the author gives one terspoonful of sodium

W M PATON M D

perthyroldism 4m J Med Sc 1928 cixxii 1

The authors state that hyperthyroidism and dia betes show many similarities. When these conditions are associated even minor slips in treatment other wise without consequence will quickly result in

In disease of the thyroid which lead to glycosuria hyperthyroidi m is the fundamental factor This is evident from the fact that glycosuria was present before or after operation in 38 6 per cent of of cases of secondary hyperthyroidism whereas in a series of surgical cases without hyperthyroids man it was present in only 13 6 per cent

In hyperthy roudism there is also a slight tendency toward hypergly arms. Therefore for the diagnosis of diabetes in hyperthyroidism the authors have taised the standard to a blood sugar of o 15 per ce tire the fatting state or 2 per center more after meals in addition to glycosuma.

Of the authors 15 cases of hyperthy roulism with dub tes hereduly was a factor in 20 per cent. The hyperthyroidism usually precedes the appearance of the dubetes though this is not easy to demonstrate According to statuties in the literature: the hyperthyroidism precedes the dubbetes in \$5 per cent of the cases of primary hyperthyroidism and in 57 of the cases of primary hyperthyroidism and in 57 of \$5 acrondary the cases in which the hyperthyroidism \$5 acrondary the

In persons with thyroid Issease diabetes is twice as frequent as in persons with surgical conditions without hyperthyroidism but much less frequent than in those with pituitary disease. Frank diabetes was present in 2 45 per cent of the authors cases of primary hyperthyroidi m and 4 27 per cent of their

cases of secondary by perthyroidsm.

The feeding of thyroid gland to normal animals has sometimes resulted in a lowering of the assimilation of glucose and a decrease in the quantity of glycogen stored in the her. Conversely thyroidec

tomy on normal animals increases the tolerance for carbohy drates and leads to hyporly camia

The findings with regard to changes occurring in the pancres in thyroid disease are contradictors in 6 of 10 cases of Basedow's disease which came to autops. Holds found the pancres reduced in suc or the islands of Langerhans reduced in number or altered in structure. Kojima and Hoshitosto re ported hypertrophy of the pancress after thyroid reduing whereas other investigators have noted hypertrophy of the islands of Langerhans after thyroid-trophy of the islands of Langerhans after thyroid-ctrophy.

In the authors cases of diabetes with primary hyperthyroidism the average age at the onset of the diabetes was forty and five tenths vears and in those of diabetes with secondary hyperthyroidism it was forty seen and eight tenths vears whereas the average age of onset of diabetes without hyper thyroidism is forty three and eight tenths years

The majority of the authors thyroid diabetics were females a fact in accordance with the greater incidence of hyperthyroidism in females than in males.

The diabetic over forty years of age is usually overweight. Of the authors diabetics with hyper thyto; fism 83 per cent were overweight.

In 600 fatal cases of ordinary diabetes since the introduction of insulin the average length of life after the beginning of the disease was seven and seven tenths sears. In 12 fatal cases of diabetes and primary, hyperthyroidism it was three and four tenths sears and in 6 fatal cases of diabetes and secondary hyperthyroilism it was four and one-tenth years.

In 33 3 per cent of the cases of diabetes with primary hyperthyroidism the cause of death was diabetic coma

Before operation the patients with dial etes and primary hyperthyroisian showed in average basal metabolic rate of +6r, per cert whereas in 1000 cases of uncomplicated primary hyperthyroidism the basal metabolic rate before operation was +4p per cent. After the operation, the basal metabolic rate of the thyroid diabetics fell to +7p per cent whereas in the cases of uncomplicated hyperthyroidism it

fell to +5 per cent.

In diabetic patients with adenomitous gotters and hiperthy rodism the average basal metabolic rate before operation wis +44 per cent. whereas in similar cases without diabetes it was +41 per cent. After operation it fell to +10 per cent in the former.

and +6 per cent in the latter.

In the cases of diabetes with primary hyperthy roudism, the gain in weight after operation averaged 21 lb. whereas in cases of diabetes with secondary hyperthyroidism it averaged 13 lb. In cases of un complicated primary hyperthyroidism the average 4 gain twelve months after the operation was 24 lb and in cases of deformations router with secondary.

hyperthyroidism it was 14 lb In persons belonging to the Jewish race who are prone to diabetes the incidence of diabetes with

hyperthyroidism is no higher than in others

The treatment of dasbetes with hyperthyroidsm consists in regulation of the diet and the administration of insulin and Lugol's solution. In the authors cases the carbohydrate was maintained at about 100 gm and the protein at approximately 1 gm and the total calones at not it are from 30 per kilogram of body weight. Insulin was green in part kilogram of body weight. Insulin was green in a more times a day—and if prompt response to the more times a day—and if prompt response to the court of the more times and the court the insulin was increased to 100 units at a dose and was given more frequently.

Food was given within three hours before the operation but usually this did not exceed as gm of carbohydrate in the form of outmeal grued orange juice or ginger ale. The does of insulin before operation was too small rather than too large. The operation was too small rather than too large. The operation was too small rather than too large. The operation was too small rather than too large. The operation was a state of the state of the operation of the operation of the operation of minimum early given a day for about eight days and the minimum were given weekly for three months.

Intravenous infusions of glucose with normal saline solu ion were given when severe reactions occurred or were anticipated

In 37 of the 43 cases of primary hyperthy roidism 64 operations were performed. The operative mortality reckoned on the basis of the number of operations was 150 per cent and reckoned on the basis of the number of patients 27 per cent.

In the cases of 26 of 28 patients with secondary hyperthyroidism 39 operations were done with an operative mortality of 5 t per cent reckoned on the basis of the number of operations and 7.7 per cent reckoned on the basis of the number of patients

Cure of the diabetes did not occur after the operations but as a rule there was a gain in tolerance

for carbohydrate

In 8 of the authors cases of hyperthyroid dia betes the diabetes developed after an operation for hyperthyroidism Therefore the hyperthyroid pa tient who has been operated upon should be warned of the possibility of developing diabetes later even though the disease may not be so apt to appear as if he had not been operated upon Progressing longevity increases the incidence of diabetes in the community and progressing longevity of the hyper thyroid patient brought about by operation may also be a factor in that it brings him into the dia betic age zone the onset of the disease occurring most frequently in the fiftieth year of age in the cases of females and the fifty first year in the cases of males The authors believe however that the hyperths roidism also plays a part

I S MODERN M D

Thomson Sir StC Intrinsic Cancer of the Larynx Operated upon through a Laryngo fissure Proc Roy See Med Lond to 5 m.

Laryngofissure gives an excellent result in in trinsic cancer of the larynx. The author reviews seventy cases Thirty four of the patients are still living from three to nineteen years after the open tion Eighteen died from causes other than retur rence and three died as the result of the operation Eleven of the patients developed malignant diesse elsewhere including glands in the neck Most of the recurrences appeared within the first year When a recurrence develops in a borderline case larynger tomy is indicated. In subglottic cases with fired

cord the prognosis is unfavorable The patient should be given careful pre-operative preparation The operation may be done under local or general anaesthesia but deep general to

W M PATON MD

æsthesia should be avoided. No atropin morphia, or similar drugs should be used

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Fagleton W. P. Traumatic Lesions of the Head and Their Relation to the Ophthalmologist J. Med. Soc. V. J. rscs. 1928, xxv. 507

The author advocates for every general hospital a Department of Cranal Surgery with a Chief and Associate both expert ophthalmologists and a technician trained to determine visual fields and conduct neuro airid examination.

In cases of head murs the degree of cerebral trauma and not the skull fracture is of chief importance. The three types of cerebral damage are: (1) laceration (2) internal humorrhage and (3) external humorrhage or exudate Of these only the last calls

for surgical intervention

The traumatic cases are divided into ax clinical group namely those with (1) extradural hieror thage from the middle menageal artery, character traced by a lund interval (2) subdural hieror thage with a continuous headache and often papillaciem (3) success a extradural subdural and in tra-crebral hiemorrhages from repeated traumata (4) subdural hemorrhage with secondars cedems characterized by more or less delirium (3) compound fracture of the skull and (6) traumatic encephalitis without fracture of the skull increased intracranial pre-sure or paullordemia.

Mi idle me sinceal hamorrhage calls for immediate exposure of the artery by subtemporal decompression performed with a drill and rongeurs not chiscle To prevent injury to the arachnoid cells subdural clots should be washed away gently and not forcibly lifted out Subdural harmorrhage with secondary ordema if not too extensive can be controlled by repeated lumbar punctures or the administration of magne sium sulphate by rectum A compound skull fracture must be converted into a simple fracture as soon as the patient has recovered sufficiently from the shock to withstand the operation but not before Thor ough debridement i essential within eight hours All devitalized and infected tissue and loose bone fragments should be removed. In cerebral compression immediate surgical interference i indicated when there is increasing unconsciousness with a ri ing systolic pre sure a falling diastolic pressure and a progressively increasing pul e rate with later papillordema

Basil fracture are usually considered inoperable with the exception of the e which go through the petrous bone and are associated with blee ling from the car and ethy signs of me ungits and those with deeres of fracture into a frontal sinus. In cases of fracture through the temporal bone with suppura to an in the ear recovery results in 90 per cent and

death occurs in only 8 per cent if proper treatment in given Twenty five per cent of all superies of the frontal sources result in death from metinguits hence this type must be operated upon at once. All infect tive tissue must be removed and any communication between the cerebral tissue and then or closed with skin or fascia. In cases of fractures through the orbital roof with intra outlar blindness without ophthalmoscopic changes operation should be performed from above and the orbital space decompressed in order to prevent subsequent optic atrophy. A traumatic enceptibility without signs of increased pressure does not call for surgical interference.

All operations upon adults should be done under local anasthesia. Repeated coughing if the dura is opened will often greatly assist in the extrusion of foreign material from within the brain.

LEFRT S CRAWFORD M D

Dandy W E Arteriorenous Aneurism of the Brain 1rch Surg 1928 xvii 190

Artenovenous aneutrants may be divided into 4, man groups (i) the traumatic which do not occur in the brain (2) the congenital a large group in which there is a communication between ab artery and a contiguous vein by one of more aberrant vest of probably due to an error of vivuality development in the embryo (3) those in which the arterior venous communication is established through the medium of a mass of abnormal vestels which has executed in tumors known as auguma and (4) the execution timors known as which seem to be the result of maldes elopment from which seem to be the result of maldes elopment from the embryon vascular altage.

Many terms have been applied to these vascular dilatations and communications. Eighhoff suggested classifying them simply as verous arterial and arternovenous ancurisms. This would include all of

the types déscribed

The first arterius enous ane_ners of the brain nareported by Steinheli in 1809. Dadly has collected 2 definite cases from the literature. He excluded several of those reported because these dit not have all of the essential symptoms or findings namely, marked fullness and enlargement of the veins of cut and increased size and tortuosisty of the afteruntering the masts of ve sels. At the Johns Hopkins cut and increased size and tortuosisty of the brain was found in 8 of foo ensures aneutran of the brain was found in 8 of foo ensures and the brain was found in 8 of foo ensures the first increase seen during a perior of five veint. Increase of the condition in neurological climes is given as from 0 s

The author reports 8 cases in detail with drawings of the lesions. The patients were males ranging in age from fourteen to fifty two years. In

4 the lesion occurred on the right side and con si ted of a communication between branche of the middle cerebral artery and the rolandic and sylvian veins In I case the lesion was on the right side but more posterior and seemed to be connected with a similar lesion of the scalp in the temporo occipital In 2 cases the aneurism was in the left parietal region and was similar in type and location to the aneurisms in the first 4 cases mentioned In I case the lesion was occipital and involved the left vertebral artery

The duration of the symptoms range I from four teen months to fifteen years. All of the patients had convulsions except the one with a cerebellar angur ism Four showed no signs or symptoms of pressure but presented focal symptoms The X ray revealed changes in 3 cases. In 2 cases there was papill cedema Ventriculography was of aid in diagnosis in 2 cases and of aid in craniotomy in 2 others. The

diagnosis before operation was tumor in 4 cases tumor or aneurism in 2 and aneurism in 2 In every instance operation showed a definite communication between an artery and adjacent large dilated veins. The veins pulsated and carried arterial blood and as a rule a venous thrill could be felt. In 2 cases an attempt was made to extirpate the lesson but both of the patients died from hem orrhage Two patients who were treated by ligation of the artery of entrance showed marked improve ment 1 of these had a temporary hemiplegia. In 2

cases ligation of the internal carotid artery was followed by cure

Of the total number of 30 case reviewed 60 per cent were those of males. In 44 per cent the symp toms did not appear until after the age of thirty years and in 30 per cent until after the age of forty years The duration of the symptoms ranged from a few hours to fifty years The lesions were located in almost every part of the brain but an over whelming majority were in the paracentral region and connected with a branch of the middle cerebral artery

The hi tological appearance of the vessels com prising the vascular skein is varied. These vessels are usually large but may be small. Their walls are thick or thin The intima may be narrow but frequently is greatly thickened. The clastic tissue layer is usually not well defined and the me ha is poorly developed Thrombosis may be extensive The vessel walls being inelastic may rupture as the result of the prolonged increased pressure

Convulsions are the rule and in most cases are of the jacksonian type. As a sequel there is usually a transient motor or sensory paralysis other focal manifestations occurring at times are aphasia hemianopsia and unilateral loss of sight smell or taste. The possibility of an arteriovenous aneurism of the brain should be considered in the diagnosis of cases with a history of repeated motor or sensory involvement with little or no permanent progression over a number of years Mental changes are infrequent. In some cases the heart is enlarged

but this is not common. In about 23 per cent of the cases increased intracramal pressure is evidenced by headache Papillordema is not common and diplopia is rare. Cerebral hemorrhage occurs frequently 41 per cent of the deaths being due to the

In the diagnosis the \ rays and ventriculography

give definite aid

The treatment is of two types (1) ligation of the entering arteries with or without extirpation of the mass of vessels (2) ligation of the internal caretal artery (for cerebral aneurism) and of the vertelral artery (for cerebellar aneurism) Occa. ionally a subtemporal decompression may be industed Radical ligations or extirpations alone are curative but exceedingly dangerous to life and function and are indicated only in a minority of the cases

ALBERT S CRAWFORD MD

Van Wagenen W P The Incidence of Intracra nial Tumors without Choked Disk in One Year's Series of Cases Am J M St 19 3 clxvvi 346

This article is a review of 365 brain tumor cases treated in Cushing's clinic in the period from October 1924 to November 1925 with especial after tion to those without choked disk. One hundred and eighty three of the cases were classified as senfied 81 as unverified and 101 as suspected Of the 183 verified cases 22 were re admissions Of the 145 verified new cases 17 (117 per cent) showed no appreciable changes in the eye grounds If we exclude from this number the pituitary adenmata congenital cysts and suprasellar meningomata which are rarely associated with choked dik the percentage rises to 16 5

Of the 81 unverified cases 9 (119 per cent) showed normal funds. While these cases were not verified histologically the presence of a tumor was indicated by shadows in the roentgenogram sag est ing calcification and by field defects distortion of the ventricles and resistance to the exploring needle

A review of the literature shows that in 18 Jackson cited 3 cases without choked disks and since then numerous similar cases have been it ported In an analysis of 200 verified cases Pates found that in 20 per cent the funds were normal at the time of operation or death. In a series of 60 cases Brain found normal fundi in 21 6 per te ! In the production of choked disk the size of the tumor is of secondary importance the primary fer ture being interference with the cerebrospinal circu lation due to the position of the neoplasm or ædema Absence of choked disk does not mean ab ente of an increase in the intracranial pressure. In 50 per cent of the cases reported the presence of increased pressure was evidenced by hydrocephalus flattening of the convolutions protrusion of the brain after decompression or convolutional impressions on the

Of 17 verified tumors without choked disk 6 were located in the posterior fossa 3 were acoustic neuro

mata 1 was an anomalous growth of the cerebellum 1 was a medullary tumor and 1 was a midline cerebellar tumor

Eleven tumors without choked disk were supritentorial None was associated with hydrocephalus and none was very large although some of them caused ventricular distortion. Six were temporal or supramarginal. One was a parietal meningioma §

supramargnal One was a parietal meningioma 3 were parietal gloomat and one was a parisaggital glooma.

Of the unverified tumors without choked disk 6 (a3 per cent) showed calcification. If the cerebellum is excluded the percentage is 30 Calcification is considerable to the considerable in the considerable in the considerable.

is evaluated the percentage is 30 Calcification is of considerable importance in the diagnoss of brain tumors. In a review of cases seen in Cushings clinic over a five year period. Van Dessel found calcification in 135 per cent. Of verified glomata In 3 unverified cases without choked dask field changes were found. The cases are reported in detail. It is interesting to note that in case choked disk did not appear until the patient's third admission to the clinic probably seven or eight years after the onset of the disease.

GILBERT C ANDERSON M D

Pancoast II k. The Significance of Petrous Ridge Deformation in the Roentgen Ray Diagnosis and Localization of Brain Tumors im J

Of 221 proved brain timors 65 nere nituriary of cerbrial and 59 cerebrial source of cerebrial timors the roneign ray findings were correct in 58 (59 a per cent). In the 97 cases of cerebrial timors there was positive receitige ray evidence of timor in 55 (56 7 per cent). Twenty say of the cerebrial timors were localized roneigneologically. Of the 59 timors in the posterior fossa timors 30 (50 8 per cent) were demonstrated but only 2 were

localized with the roentgen ray

Roce (genol 1928 x 7 201

Extrasellar brain tumors are recognized roentgen objected from excitections within the tumor mass hyperotoses associated with meningomits shift will off the shadow of the calcided pursel gland and will be shadown to the calcided pursel gland and the shadown to the construction of the shadown t

This article is concerned chiefly with deformities of the petrous portion of the temporal bone as a

re ult of pressure

The value of the occupital view 1 emphasized A study of the petrous ridge in 117 roentgeno gram of normal persons showed both safes to be regular and symmetrical in 105 (93 per cent) irregularities occur more often on the right side view shight defects especially if on the right side shoult be divergarded but when there is chinical solutions.

evidence of an intracranial tumor a deformity of the petrous ridge is significant and a valuable lo

calizing sign

The author cites 6 cases in which this study was of aid in confirming the dispenses and localizing the growth. In 1 instance the climical extamination indicated a tumor on the right sude but the de formity of the petroos ridge was on the left and at operation the tumor was found on the left safe and the confirming the which there is not included to the confirming the operative findings confirmed the climical findings.

It is probable that more than one factor is responsible for the localized bone attrophy. Probably direct pressure from a slowly growing tumor is of chief importance. When the attrophy occurs in the neighborhood of the internal auditory meature the presence of an acoustic tumor is to be suspected in addition to pressure direct infiltration of the bone by the tumor is responsible. Another factor is obstruction of the lateral sinus as by an angle tumor with resultant diplation. After a long time bone changes may result from the pulsations trans mitted to a tumor mass directly over the bone.

CHARLES H HEACOCK M D

Cushing II and Balley P Hæmanglomata of Cerebellum and Retina (Lindau's Disease) with the Report of a Case Arch Ophih 1928 lvu 447

Cushing and Bailey who have done so much to durify our views on tumors of the gloma series are again pionteers in bringing before American physica cann the brilliant work of the Soudish pathologist Arvid Lindiau. In this attacle they give a brief retew of Lindiau so work and of the case reports in the literature before Lindiau recognized the relation sing between harmangiohastomats of the retina and cerebellom and other parts of the body such as the development of the parts of the body such as the cerebellom and other parts of the body such as the time to be a such as a such as the such time to the form of the parts of the properties of appointaints retinae recorded in the hierature and report a case of Lindiau s disease seen in their own practice.

The latter the first case of Lindaus disease to be reported in the American literature was that of a man forty years of age. At operation performed December 13, 1922 a cerebellar cyst containing antihochromic flud with a small invaril tumor was removed. Prompt recovery followed. The herman goblastoman in this case was first diagnosed as a

vascular glioma

In 1926 while the authors were engaged in a study of timors arising from the blood vessels of the brain Lindau's monograph appeared. This caused them to restudy their eleven cases of himanigo blassoma. In all of their cases the tumor was located in the cerebellum. I ive of the patients died. In the three cases in which an autopsy was performed no abnormalisties were found elsewhere in the boljs.

(spinal cords and retine not examined)

The patient whose case is reported was the first of the six survivors to return upon request and was

the only one who had in unmitakable retired in grown. The lesson is described in detail

Because of the known familial tendencies of the di ease additional facts were sought on the national s re admission to the clinic. It was found that his futher had died at the age of thirty six years in an attack thought to be due to the rupture of a cystic tumor of the brain which was called a sarcoma Light veres previously his father's sister had died in a similar manner. Of the patient's two sisters one brother and eight children several have poor One sister and all of the children have been examined but a vet none of them shows hemangiomatous changes of the retina

I TO M DAMP OFF MD

The Route of Absorption of the McLean A J Active Principles of the Posterior Hypophysial Tabe Infor 11 logs 1028 to 40

McLean titrated the oxytocic power of dialysates from the blood plasma of dogs human beings and cattle (guinea pig s uterus checked qualitatively by melinophore tests on frogs) against pituitria of known strength. He found presumptive evidence of the presence of pituitrin in the blood of these animals and that the concentration of this substance was greater in the external jugular veins than elsewhere in the body while the concentration in the cerebro

pinal fluid was about equal to that in arterial blood He is therefore led to the conclusion that the absorption of the products of the posterior labe of the hypophysis takes place primarily by way of the blood stream rather than by a transneural route

LEO M DAMPSER M D

Reichert F L The Results of Replacement Ther apy in an Hypophysectomized Puppy Four Months of Treatment with Daily Pitultary Heterotransplants Indoc in 1 gv 10 8 xn 451

Reichert has repeated on a dog the work done by Smith on rats. He results although not so striking as those obtained by Smith were nevertheless radicative of the control possessed by the pituitary gland over growth and sexual function

I female puppy six weeks old was hypophysec tomized and allowed to go for six months untreated During this period she failed to grov or mature physically or sexually as compared with a healthy litter mate sister

When she was seven and one half months old replacement therapy by daily injections of fresh rabbits hypophysis was started Congestion of the external genitalia occurred within forty eight hours and continued throughout the period of treatment which lasted four months During this period the milk teeth were replaced by permanent teeth the epiphyses closed and the coat changed from the downy coat of a puppy to that of an older dog

The increase in size and weight was not striking but the author believes that this was due to his having delayed treatment for so long after the hypo I I STORED WALL nhysectoms

SPINAL CORD AND ITS COVERINGS

Aubie I S and Fulton J F A Clinical and Pathological Study of Two Teratomatous Ches of the Spinal Cord Containing Viucus and Cill ated Cells Surg Gree @ Obst 1928 xl u 10

The authors describe two very rare teratomatous c) sts of the spinal cord containing thick egg white fluid full of culiated epithelial cells Both were successfully removed at operation. The first was found in a boy of two years who had been dragging his right foot since he first began to walk. The early symptoms were rather indefinite but eventually there were unequivocal signs of cord com pression with spinal fluid block and the thick for containing ciliated cells was evacuated by lumber puncture Removal of the cyst by laminectoms #2

followed by complete recovery The second tumor was found in a noman taests seven years of age who since the age of two had had five sudden atta ks of left hemipleria with pain in the left cervical region and Brown Sequard dissocration of sensation in the trunk and extremites The attack for which the patient entered the hospital caused respiratory embarrassmert and almost complete quadriplegia with sen ory disturbance at the level of the fourth cervical vertebra. The ers removed at operation resembled that found in the first case but showed complexities commersurate with its greater age Recovery resulted

In discussing the pre operative and postoperative course in the second case the authors state that it the patient's last attack as in the earlier ones the paralysis developed first and persisted to gest or the left side although during the height of the con dition it was the right side that showed the m " profound to s of power The left side showed from first to last the more marked reflex hyperexcush. The evolunation sugpested is that the right

side suffered the more recent injury and hence ma ! feste I the flaccidity of spinal shock while on the left side there was presumably a condition of chron impurment of the upper motor neuropes spins

shock having long since pa sed off

It was observed also in this case that painful sensations from the muscles joints and tendors were preserved on the left side although the sense of position on this side was lost However on the right side where the cutaneous sense of pain was diminished the pain in deeper structures was and diminished Accordingly the fibers that mediate deep pain must run in close proximity to those mediating cutaneous pain It was significant althat on the left side with normal cutaneous sea sibility a high degree of posterior column a tereof

Postoperatively the various sensors and moto functions returned in the reverse order from that in shi h thes had disappeared. Throughout the pt tient's recovery motor functions returned more promptly than sensory functions Of the sensory functions the slowest to return were the more

nosis was present

highly developed qualities of sensation such as that of the perception of light touch and the texture of materials. Pain returned more rapidly probably because it passes along fibers of small diameter which are less susceptible to compression.

LEO M DAVIDORE M D

SYMPATHETIC NERVES

Reid M R Tumors of the Autonomic Nervous System In 1 Surg 1028 Ixxviii 510

The author reviews the tumors of the autonomic system which have here reported in the literature and classifies them as neuroplastomuta ganglio neuromata and paragangliomata. The neophisms were found in the following locations appendix a 35 carotid body 111 superaenal medula 70 small intestine 17 stomach 2 central nervous swingthetic chain 8 throaci. Sympathetic chain 11 abdominal sympathetic chain 2 times classified in the chain 2 miscalianeous sites 11 seconds.

Neuroblastomata are malignant tumors appar ently arising from the neuroblasts or undifferen trated cells from which the autonomic and chromaf fin systems develop. They occur most frequently in infancy or early childhood and their site of predilection is the suprarenal gland. As a rule the primary growth is small Metastases may be formed in the liver lungs and lymph glands. The larger tumors and metastases are nodular masses of rather firm consistency. On section, their cut surface is a glistening white with streaks of color due to local hæmorrhagic degeneration Microscopically they are alveolar in type and their characteristic cell are usually arranged rosette fashion about a central mass of fibers Metastasis seems to occur most frequently by way of the lymph stream. The diagnosis is difficult without bions

Gunglioneuromata are benign tumors arising from ganglione elements of the autonomic nervous system. They occur most frequently in female adults usually on the left side und most commonly in the central nervous system and its membranes and the great sympathetic thains. They vary from the size of 4 hens egg to that of a child's head and grossly resemble fibromata. Microscopically they are reticular. The interstices contain mediullated and non mediulated nerve fibers interimingled with multipolar ganglion cells. Evcept in the very rare instances of malignant degeneration the symptoms are caused merely by the mechanical difficulties due to the size of the growth.

to the size of the growth
Paraganglomata are benign tumors arising from
chromaffin tissue. They usually occur in adults and
are found most frequently in the carotid gland and
the appendix. Grossly they are nodular and of firm
consistency, and even texture. The cut surface
varies from yellow to red. Microscopically, they are
alvolar and composed of poly hedral granular cells
arranged in compact groups and surrounded by
hyperplastic capillary endothelium. The simptoms
caused by them are usually due to mechanical
pressure.

The article is concluded with various tabulations of the author's case collections and a comprehensive bibliography

I RIC OLDBERG M D

Muller G P End Results of Periarterial Sympathectomy 1n Surg 1928 lxxxv ii 474

Muller believes that some of the failures of periarterials impathectomy may be attributed to the faults selection of cases and that the operation will prove of particular value in the treatment of refractors ulcers of the extremities especially those due to trophic disturbances

TTO A DAMBOUT A D

SURGERY OF THE CHEST

TRACHEA LUNGS AND PLEURA

Problems in Bronchoscopy and Œsophagoscopy 1nn Ot ! khinol & Laryngol 1928 XXXVII 987

Bronchoscopy is indicated for diagnosis in cases with signs and a history pointing to the presence in a bronchus of a foreign body that does not show in the I ray picture and in cases of lung abscess gangrene

of the lung and bronchiectasis

Immediate bronchoscopy is necessary chiefly when an inhaled foreign body causes considerable respira tory embarrassment because of its large size or its shape or because it comes up against the undersur face of the glottis in such a way as completely to cut off the supply of air In the ordinary case in which a foreign body has been inhaled careful and complete preparation for operation is usually possible. An inhaled peanut must be removed promptly as it causes a severe reaction

Each type of bronchoscope and exophagoscope

has certain advantages The Bruening instruments can be used in smaller tracher and bronchi than the Jackson instruments. On the other hand the Bruening instruments must be used largely by the sense of touch while the Jackson instruments can be u ed under visual control The Jackson instruments require smaller and weaker forceps than the Bruen ing instruments. When it is necessary to cut the foreign body before removing it the Bruening in struments are to be preferred. A much larger foreign body may be removed through the Bruening instru ment than through the Jackson instrument

For the beginner lower bronchoscopy is safer than upper bronchoscopy The danger from a tracheot omy is not great if ordinary surgical skill is used. If the foreign body is very rough and irregular trache otomy should precede the bronchoscopy

If general anaesthesia is necessary it should be in duced with ether The anæsthesia induced by ni trous oxide does not last long enough Chloroform is too dangerous. In the cases of adults cocain may often be employed to advantage if the patient is of the phlegmatic type Solutions as strong as 25 per cent may be necessary

When the neck cannot be extended tracheotomy can be done and the foreign body removed by lower bronchoscopy if the head can be rotate i and the foreign body is in the trachea or a bronchus MERCE R HOON M D

Weidlein I F and Herrmann L G Abscess of the Lung Experimental Studies in Chronicity

In experiments on dogs the authors found that lung abscesses could be produced at will by freeing small artificial septic emboli into the venois circle tion but they usually healed by cicatrization with a three weeks

In a second series of experiments they attempted by producing a chronic cough to cause abscesses more nearly simulating the chronic abscesses occuring in man. The cough was caused by subjecting the animal to inhalations of diluted free chloring gis for a few minutes three times a day It was found that by this method the duration of the absent could be prolonged for a period of four or five week but no longer

In another series of experiments anaerobic organisms were used. When these were introduced by i & venous route abscesses of a greater degree of chma icity could be produced but when they were introduced by the intratracheal route abscesses were produced only when the entire bronchus was occluded These experiments seem to indicate that the preence of certain anaerobic organi ms is of importance in the production of chronic pulmonary abscess Whether these infectious agents reach the lung in man by way of the air passages or the blood stream is still unknown Under experimental conditions however insufflated material must block the passage completely as well as injure the bronch before an abscess is produced. This fact coupled with the observation that the arsenical drugs which kill spirochates will rarely if ever cure pulmonary abscess in man even though they alleviate the cor dition suggests that the anaerobic organi ms a c probably secondary invaders

Undoubtedly the bronchiectatic type of bees has its beginning in the bronchial tree. This is the type of lesion that follows the inhalation of a foreign body or grossly contaminated material which be comes lodged and occludes the finer bronchist ramfications It responds readily to treatment when the foreign body or obstructing material is removed a 1 the cavity is aspirated endoscopically

RALPH B BETTUL MD

Clerf L H Lung Abscess Following Tonsiller tomy from the Standpoint of the Broncho scopist 41/ nt c If J 1928 xxx 911

Clerf emphasizes that because of the increasing number of reported cases of lung abscess complicat ing tonsillectomy it behooves every lary neolog to study be patients carefully before operation and to employ all possible prophylactic measure

Whenever pulmonary symptoms develop follow ing tonsille tomy the possibility of impending he absce s should be immediately con idere! patient subjected to tonsillectomy should be discharged from observation until after three or i a weeks

In all cases of postoperative lung complications

he examination should include an X ray study One of the most valuable methods of treating abscess of the lung following tonsillectomy is bron choscopic aspiration carried out by an expensance bronchoscopist on the advice of the internist roent genologist and surgeon and in conjunction with such medical measures as may be recommended by

In conclusion Clerf states that no patient with an incipient abscess of the lung has had the full benefits afforded by medical and surgical skill if brouchos copy was not considered as a possible method of treatment in his case RRIPH B ERTIMAN M D

Schall LeR A Primary Carcinoma of the Bronchi
Ann Olol Rhinol & Laryngol 1928 xxvvi 762

Primary carcinoma of the lung is by no means as are as the tethbooks suggest and it appears to be becoming more common. Whether the increase in its incidence is a true increase or due to more accurate diagnosis is problematical but the theory that the pulmonary trauma suffered during the influenza epidemic of 1918–1910 is responsible for an actual increase appears reasonable.

The tumors have three sites of origin (1) the bronchial mucous membrane (2) the bronchial mucous glands and (3) the alveolar epithelium. Those arising from the bronchial epithelium are either squamous or cylindrical celled tumors whereas those arising from the mucous glands are mainly

adenomatous in structure

the internist

Primary carcinoma of the bronch; is more common in males than in females and usually develops after the fortieth year of age. The symptoms are a cough dyspace pain hemoptysis fever and cachesia which vary in degree and combination according to the size and location of the growth. The most constant symptom is cough.

In the differential diagnosis tuberculosis pul monary abscess gangrene cyst foreign body and ancurism must be considered. The condition is probable asset for

ably confused most frequently with tuberculosis Childs states that in the roentgen examination tuberculous masses are usually found in the posterior mediastinum while cancerous nodules are discovered

more frequently in the anterior mediastinum. Car man found that erroneously diagnosed cases fall into two groups. (1) those in which the lesson is mistaken for a mediastinal tumor bronchopneumonia gain grene tuberculosis cyst or empyrema and (2) those in which the pulmonary tumor is latent and symp toms of extrathoracic metastases predominate. The diagnosis rests mainly on the findings of broncho scopic examination. The bronchoscopic picture is that of bronchial occlusion either by a tumor mass outcropping or stenois due to infiltration of the bronchial wall with smooth bronchial mucos the

Six cases of primary carcinoma of the bronchus are reported

The author draws the following conclusions

1 Primary carcinoma of the bronchus is not an

extremely uncommon disease
2 Patients with obscure chest conditions should have the benefit of the close co-operation of the thoracic surgeon the internst the reentgenologist

and the bronchoscopist

3 Bronchoscopy is the best means of establishing an early diagnosis of bronchial malignancy

MERLE R HOOV M D

Smith R E The Etiology of Primary Lung Gar choma An Experimental and Clinical Inves tigation J Cancer Research 1928 xtt 134

A study of forty eight cases of primary human carcinoma proved by autopsy failed to reveal a definite etiological factor. In the author's experimen tal investigations one group of mice were exposed to coal tar fumes others were exposed to fumes from the exhaust of a Ford engine and others were painted with gasoline over a period of five months Carcinoma of the lungs did not occur in those exposed to the coal tar fumes but developed in one (3 8 per cent) of those exposed to the exhaust gas and in one (3 4 per cent) of those that were painted with gasoline This incidence was not markedly greater than the spontaneous occurrence of lung carcinoma Neither the author's experiments nor his clinical observations gave any support to the theory that carcinoma of the lung is caused by ex posure to the fumes of coal tar or gasoline

NATHAN N CROHN M D

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Koontz A R New Principles and Procedures in Hernia Repair Texas Stat J W 1929 xxiv 2,9

In experiments conducted at the Surgical Hunte man Laboratory of the Johns Hopkins Medical School the occurrence of union between muscle and fascia or ligaments was demonstrated by gross and microscopic findings. Further investigations revealed that if the muscle was stripped clean of all areolar tissue or if the edge of the muscle was cut the umon was much firmer

The studies of Gallie and LeMesurier with regard

to the use of living sutures and of Nageotte with regard to dead grafts stimulated wider investigations It was found that relatively large pieces of fascia which had been preserved in 70 per cent alcohol could be transplanted into living tissue The dead cells of the graft were removed by wander ing cells of the host. Tibroblasts from the host grew into the persisting connective tissue framework of the graft a new circulation was outablished and in a short time it was impossible to distinguish the dead graft

Applying the principles worked out in animal surgery the author has operated upon twenty six hernia in man using alcohol preserved strips of fascia lata of the ox as suture material and the technique advocated by Gallie and LeMesuner for hving sutures

I reserved fascial strips are not a suture material in the ordinary sense of the word. They are not absorbed as are ordinary absorbable sutures nor do they lie as an mert foreign body. The material be comes an integral part of the organism into which it is implanted WILLIAM I SHACKLETON M D

Wangh G E The Clinical Aspect of Concenital Mesenteric Malformation in Children Proc Roy Soc Med I and 1928 xx1 17 7

Congenital malformations of the mesentery are definite morbid entities of a chronic type which may be recognized before operation by careful clinical and roentgenological investigation

The syndromes to which they give ri e do not resemble those of any of the well known abdominal surgical diseases nor any of the purely functional disabilities to which the term indigestion

The most important physical sign i the empti ness of the right iliac fossa associated sometimes with an asymmetrical enlargement of the abdomen These signs follow of necessity on the left side masmuch as the whole segment of the embryonic mideut is involved in a failure of rotation and fix? tion after reduction from the umbilical sac

Operation may effect a cure and when it I le to do so may serve to reveal more accurately the char acter of the malformation so that a rational con e of treatment may be adopted

CEORGE A CHIZIT M'D

GASTRO INTESTINAL TRACT

Fredet P and Lesné E Hypertrophic Polont Stenosis in Infants The Anatomical Result of Lylorotomy in a Patient Treated and Cored Three Months Previously (Sténose hyperit phique du pylore chez les nourrissons. Ré ultat ant tomique sur un sujet traité et guen d'pu tre mo s) Bull el me i Soc not de chir 19 8 hr 1050

In the case reported typical symptoms of p lore stenosis developed on the thirtieth day after the infant's birth and during the following eighteen days the child rapidly lost weight A roentgenogram showed almost complete obstruction at the prioris only a trace of the barium meal passing in twenty four hours

At operation a very vascular firm olive-shaped tumor of the pylorus was found and incised in two places to the submucosa The patient recovered but three months later died of influenza and broncho nneumonia

In the gross specimen removed at autopsy no trace of the two longitudinal incisions could be seen The pylorus was found slightly thickened but other

wise appeared perfectly normal Microscopic examination revealed two fine scar

at the sites of the incisions. In numerous places however the scars were interrupted by the mus cularis the continuity of which had been re-estabh hed

The rapid healing of the pylorus raises the question as to the mechanism by which the Frede operation can cure the stenosis permanently It has long been recognized that the stenosis is physiologic cal as well as anatomical According to a plausible explanation recently advanced by Bard the control tions of the stomach are sufficient to overcome the pyloric sphincter under normal conditions but when there is hypertrophy a degree of retention occurs which tends to become progressively more severe Therefore section of the sphincter acts by permitting re education of the stomach the re establishment of the co ordination between the pylonic and the gastric phases of the motor function

In the discussion of this report OMBREDA E advised opening the abdomen by a subcostal incist made directly over the liver as this approach en tirely eliminates the possibility of evi ceration dur ing or after the operation

ALBERT ! DE GROAT AT D

Martin F and Burden V G Pyloric Achalasia and Peptic Ulcer inn Nr g 1928 lxxxviii 565

I vloric achalasia is defined by Hurst as failure of the pyloric sphincter to relax In the authors opinion spasm of the pyloric sphincter is responsible for chronic dyspensia and ulcer symptoms in the absence of a gross ulcer and is a contributing factor in the development and chronicity of peptic ulcer Pyloric achalasia the failure of inhibition whereby the sphincter remains closed but not spastic is the result of a disturbance of the correlation between sympathetic and parasympathetic control An im portant function of the sphincter of the pylorus is the control of duodenal regurgitation an important phenomenon occurring during both digestive and interdigestive phases. The hydrochloric acid con tent of normal gastric juice is o 5 per cent when the junce is freshly formed and for purposes of digestion is reduced to from 0 15 to 0 per cent

Ill surgical procedures used in the treatment of feptic uler aim to reduce the acudits of the stom ach I attul resection of the stomach effects the most decided reduction in the gastic acidity and minitans low and values because it removes large requirements of the disordant contents. Various methods of piloroplasts have been practiced with avaring degree of success Judd prefers exission of the ulere combined with removal of the anterior half of the phoric spharter and completed as a gastroduodenostomy. I are and Shomeaker have the resultant of corum of the submissions.

The authors advocate the submucous removal of the anterior half of the sphincter without opening of the mucosa The sphincter is readily identified by the transverse veins. Tapping the pylorus causes the sphincter to contract. The veins above and below are ligated by catgut sutures on a curved needle which are left long for traction sutures. A transverse curved incision down to the mucosa is made with a sharp scalpel on the gastric side and also on the duodenal side of the sphincter The sphincter is then cut across at its lower border peeled from the mucosa and cut across at the upper border The defect on the surface of the bowel is clo ed by a continuous suture of fine chromic cat gut I xperimental operations on the dog have shown that this operation does not cause narrowing of the bowel at the site of the pylorus

JOHN W NORM MID

Walton A J Carcinoma of the Stomach I_1 t

The author does not accept the the arc that cancer is increasing. During the past fifters were he has operated upon 220 cases of gastric cancer. During the same feroid 10% patients were operated upon for chronic simple uf er. In all instrinces the diag nest was onfirmed 1s mery copic examination or visual in piction. A striking contrast between the number of cancer and ulice et cis operated upon

yearly is shown graphically. Whereas the number of cases of carcinoma remained nearly constant a steady increase in the cases of ulcer was noted from year to year. In the cases reported during 1927, the rather of the for cases reported.

ratio of ulcer to cancer was 3 rr

The relationship of cancer to ulcer of the body of
the stomach is discussed. It is the latter type of
tesion that is prone to become malignant. Walton
states that in his present practice ulcers of the lesser
cur, atture are 2 times as frequent as in 1913. He is of
the opinion that the stated difference in the years;
the curse of many ulcers by survey.

With regard to the relationship of the conditions to ser the author states that whereas both cancers and ulcers are much more common in males than in femiles the difference is more evident in ulcers than in concers.

Walton has reviewed the literature on the results of operation in gastic cancer. In a series of 651 cases of re-ection reported by Mano 38 6 per cent of the patients survived three y cars or more and 26 5 per cent survived five y cars or more and 26 5 per cent survived five v cars or more in contrast to these figures Gibbon reports that of 70 pitents operated upon for gastic cancer only 1 was alive operated upon for gastic cancer only 1 was alive vears. Walton states that his results agree with those of Gibbon Iles of the opinion that recurrence is due not to too conservative surgery but to the ton early enough.

In amproved diagnosss lies the only hope of im proving the results. When seem by the surgeon only one third of gastric cancers are operable. Cases of gastric cancer are often treated medically for long periods of time in the belief that the lesson is an uiter. Moreover many patients treat themselves especially when the simplicians are slight. Walton points out when the simplicians are slight. Walton points out the simplicians are slight with the simplified and examinations in the cases of all period can of a simplified vears of age who complain of persi tent of spepasa.

Horsley J S Cancer of the Stomach in Patients Over Seventy Years of Age 1nn Surg 1928 155550 554

During the past two and one half years the author performed partial gastrectomy for cancer of the stomach in five patients over sevent; years of age fle used a modification of the Billroth I operation approximating the upper stump of the condent to the end of the duodenum after flaring open the duodenum by an incision about 1 an long in the duodenum by an incision about 1 and long in the national value of the patients with a specific participation of the abolium as us used for substitutions with the substitution of the patients with the patients and to the left toward the vertebras above the pancreas and to the left toward the vertebras above the pancreas.

Of the five patients all men the oldest was seven ty seven years and the voungest seventy vear of age. The average age was sevents three vears. The time required for the operation varied from two to

126

two and one half hours None of the patients left the table with a pulse rate over 80 In four cases the cancer was very far advanced. In two resection of the transverse colon was necessary. In two cases in which the colon was anastomosed end to end a facal fistula developed Two patients gave a history sug gestive of benign ulcer of the stomach. In the three other cases the cancer developed without previous gastric distress

The first patient survived operation for nearly two years and died from a recurrence. The second developed postoperative pneumonia but recovered and survived for two years and three months finally succumbing to a recurrence of the cancer The third nationt lived eight and one half months after the operation and died from the effects of an intercur

rent disease In the case of the fourth patient a man of seventy years a very extensive carcinoma was resected with a portion of the transverse colon and the round lies ment of the liver After the operation a fæcal fistula developed but eventually closed Microscopic sec tions revealed an adenocarcinoma of mild malig nancy A recurrence developed within a year after the operation The fifth patient a man of seventy five years was subjected to gastrectomy for a very extensive cancer involving the lymph nodes of both the lesser and the greater curvatures of the stomach Six days after the operation the wound was opened and the transverse colon found to be gangrenous for about 5 in in the mid portion Resection followed by end to end anastomosis was therefore done The pa tient died a few days later with a colonic fistula

The author believes that while the results cannot be regarded as brilliant the extensive operative procedure was justified by the several months of life accorded the four patients who survived TORN W NUZLM M D

Eberts E M Carcinoma and Ulcer of the Stom ach Canadian M 4ss J 1928 xpt 145

During the past five years many important articles have been written on the relationship of cancer to peptic ulcer but the opinions expressed have been very divergent. Three questions are taken up

Can a gastric cancer be converted into a gas tric ulcer? A case cited by Thalheimer and Wilen sky in which the malignant gastric tissue had been completely digested away though there were mul tiple metastases apparently answers this question in the affirmative

What percentage of cancers of the stomach originate in peptic ulcer? Wilson and MacCarty say as high as 71 per cent whereas Eberts estimates from 5 to 10 per cent

What percentage of gastric ulcers become can cerous? MacCarty reports that 68 per cent of the gastric ulcers in his series of cases were associated with cancer According to Ewing the incidence of cancerous change in gastric ulcer is about 3 per cent In Eusterman's opinion every ulcer is potentially a cancer

The author believes that in every case of cancer of the stomach even if it appears inoperable on physical examination an exploration should be done and that in the absence of infiltration of the pan creas involvement of the transverse color and metastasis in the liver resection should be unde

taken Infiltration of the abdominal wall with a local anasthetic for the incision and after the shoomer has been opened infiltration of the root of the transverse mesocolon and gastrohepatic omenium along the lesser curvature at the juncture of the fundus with the resophagus or the use of splanchas anasthesia will render it possible to perform resec tion without discomfort to the patient and without the risk of pneumonia from prolonged anxilhest PAIR W SWEET MD

Moise T S: Gastro Enterostomy with a Transverse Jejunal Incision Preliminary Clinical Report Surg Gynec & Obst 1928 xivii 38;

Moise states that the mechanics of the usual side to side gastrojejunostomy is faulty because of the division of the circular muscle fibers by the longitude nal jejunal incision When the stomach is stretched by large amounts of food the food may be forced through the patent pylorus and re-enter the stomsch by way of the proximal loop This circulation of food is due to the valve like action of the ana. tomosi. When the wall of the stomach is stretched so that the edges of the opening into the rejunum are separated the intestinal wall becomes flattened over the stoms and the openings into the intestine become merely narrow slits The opening on the proximal side of the stoma permits food to circulate by way of the po lorus and duodenum and return to the stomach but both slits offer a valve like hindrance to the egress of food from the stomach by way of the stoma The more the gastric wall is stretched the more effective the valves become Moreover the division of the circular muscle fibers at the stoma in the usual side to side gastrojejunostomy makes it impossible for peristalsis to be effective at the angulation in the jejunum at the distal end of the anastomosis Hence the force that normally pushes the food along and straightens the kink i lacking

Various modifications have been sugrested to avoid these defects in side to-side gastrojejunostomy The author recommends an operation in which the

rejugal incision is made transversely In the technique described the stomach trans verse colon and omentum are turned upward to ex pose the under surface of the transverse mesocolon as in the usual procedure and the duodenojejuna juncture is located The posterior surface of the stomach is then exposed by an opening made through an avascular portion of the transverse mesocolon The stomach is lelivered and the part required for

the anastomosis is located. At either end of the pro posed gastric incision a guide suture is inserted The line of the gastric incision is selected as in the

standard procedures In the cases reported the open

ing was made so that the stoma would lie vertically or extend from above downward and to the right at an angle of 45 degrees with the horizontal. The line selected is such that there will be no rotation or kinking of the jejunum proumal to the anastomosis. The opening in the mesocolon is closed by the sulturing of

the cut edges to the stomach wall The jejunum is lifted into position for a short loop operation A point is selected between adjacent straight intestinal arteries and two small crushing clamps are applied side by side extending across from two thirds to three quarters of the diameter of the intestine. A margin of 14 in is left at the mesen teric border After an incision is made between the clamps the handles of the clamps are separated and the direction of the original transverse incision is changed to run parallel with the long axis of the intestine. This portion of the jeninum is approximated to the stomach along the line of the proposed gastric incision so that the distal loop will be near the greater curvature A posterior row of interrupted silk sutures is inserted Care is taken that the middle suture is accurately placed opposite the end of the

original jejunal incision
An incision is then made into the stomach of the
same length as the jejunal stoma (approximately z
in). The like-ling is controlled with ligatures of fine
plant catgut. The crushing clamps are removed and
the cru hed edges of the jejunum are excised. The
anastomosis may be completed according to the oper
ator's preference. In the usual procedure saturing
with No ochromic catgut is begon in the middle of
the process of the properties of the oper
cruton as a continuous continued around the angles as
a continuous inverting mattress stitch until it
anastomosis is completely closed. To avoid pro
ducing an unfully large duplying cares is taken that

tress sutures of fine black silk to complete the anastomosis
On replacement of the stomach and transverse colon the dutal jejunal loop gravitates downward at tight angles to the greater curvature in the optimum mechanical position. The provincial and distal openings are each about the size of the cross section of the jeinnum.

the inversion on the jejunal side is minimal. The

anterior layer is re-inforced with interrupted mat

The operation of gastro enterostomy with a trans verse joynal incisson according to the technique de scribed has been performed in twenty three cases including seventeen in which it was performed as the procedure of choice and six in which it was done as a Juliative measure for the relief of pyloric obstruction in malignant disea e

In the entire series of cases the immediate convalencence was surprisingly uneventful. The functional efficiency of the anastomesis was studied by routine fluoroscopic extiminations of the stomach shartly before the patients were discharged from the hospital and at later untervals between two and nine months after the operation. In some of the cases no

six hour gastric residue was noted in the immediate postoperative roentgenograms. The occurrence of the so called vicious circle was largely prevented.

MORRIS H. KARY, M.D.

Balfour D C Recurring Ulcers Following Partial Gastrectomy Ann Surg 1928 IXXVIII 548

The author reports a study of twenty eight cases in the Mayo Clinic in which recurring uler following partial gastrectomy was found at subsequent operation. In fourteen cases the uler followed resection for gastine uler in eight resection for persisting or activated duodenal uler following other operations and in six resection for gastrojeunal uleration. Classifying the lessons according to operation three followed resection of the Billroth 1 prediction of the posterior of the properties of the properties of the posterior and to safe special properties of the posterior end to safe type and two resection completed as an anterior end to safe saftrojeunostium.

The cause of these recurrences cannot be establed since stevenee may take place when exervence may take place when exervence was take place when cannot factor has been eliminated. The more important factors are hyperaculty, operative trauma and technical errors (such as the injudicions use of clamps poor approximation of the suture lines use of clamps poor approximation of the suture lines of operation (excessive smoking the ingestion of long gestible foods prolonged nervous tenson and marked irrecularity in meets) and foot of infections.

The symptoms of recurring ulcer parallel those of primary ulcer in one important respect the pain regardless of its situation radiation or seventy is related to the ingestion of food. The effect of food is a fundamental point in the clinical diagnosis of recur

ring ulcer
In the series of cases reviewed the chief complica

tions of recurring ulcer following partial gastrectomy were perforation hamorrhage and ob truction

Fluoroscopic examination is of creat aid in estab

Fluoroscopic examination is of great aid in establishing the diagnosis

The treatment of recurring ulcer following partial gastrectomy is usually surgical. The pre-operative observation and preparation of the patient are exceedingly important because the difficulties and risks of operation are definitely lessened by rest in bed a bland diet and the administration of large quantities of fluid

Certain general principles should be observed in the surgical treatment. It is unsue to attempt a plastic operation or to employ the same segment of jenum that was used after the primary resection. The operation should be dore either without clamps or with clamps so lightly applied that trauma will not result. All areas of obvious inflammatory change mether the storeshor of jenumen should be removed. The new anastomosas should hang free of the meso colon and if possible a new type of gastro miestimal anastomosas should be made. In the more intract alles cases jenusotomy should be performed on the distall loop for the administration of nourishment and fluids during the first few days after the operation.

The selection of the best type of operation 1 gov erned by the type of the primary resection the site of the ulcer the extent of the inflammatory process and involvement of other structures and the pa tient's general condition. I or recurrences following a Billroth I type of resection posterior gastro enter ostomy should have first consideration. For recur rences following segmental resections 3 I oly 2 onera tion or modification of the operation is advisable. In the treatment indicated for recurrences following a Billroth II or a posterior I olya operation the anasto most is first mobilized the mesocolon dissected free the site of the ulcer identified and a segment of the stomach the entire mastomosis and enough of the regunum to remove all obviously inflamed tissue are re ected

The results of operation in these cases of recurrent user after partial gastrections show that the disease is very intractable. It should be emphasized that putril gastrections at a primary operation for heaving peptic uties does not afford absolute assurement that carried with our recurrent that if such a receiver that that if such a receiver that the support of the case of the case of the properties are often exceedingly great and the results now too satisfactors.

Owings J C McIntosh C A Stone II B and Weinberg J A Intra Intestinal Fressure in Obstruction 1rch Surg 1928 von 50

In studies of the rel-tionship of intr-intestinal pressure to intestinal permetability in obstruction the authors first measured the normal intragastic and intra intestinal pressure respectively in eight used togs. They found as Sherrington had done own evers previously that the former is from a 10 5 cm of hater and the latter at a point a cm below the photos from 10 cm below of the outpoint that a slight positive pressure exists normally in the abdones.

Observations were made on eighteen small dogs in which simple intestinal obstructions were produced at various levels and in four dogs in which intestinal

loops were isolated

It was found that in simple obstruction the intra intestinal pressure is maintained at a level of from 6 to 8 cm of sater about twice that of the normal maximum (from 2 to 4 cm of water) and that while the bowel is active the pressure rises to ten or fifteen times the normal The type and magnitude of intes tinal motilit in obstruction may be roughly divided into three periods. In the first period-the first twenty four hours following the obstruction-there is little change from the norma! The second perio ! shows a rise in the basic pressure marked peri talsis and a marked increase in the intra intestinal pres ure generally In the third or terminal phase a fathing pressure and a decrease in peristaltic acitivity are noted 1 period of violent peristal is comes on early and occurs more frequently in high abstruction than in low ob truction. In an isolated loop of intestinthe pressure reached 70 cm of water which was

much greater than the intra intestinal pressure in simple intestinal obstruction JOHN II WOODSEY MID

Branch J R B Intestinal Tuberculosis Causing
Obstruction 1rch Surg 1018 XVII 440

The author reports his clinical experience with eight cases of intestinal tuberculosis of the hyrer plastic stenosing type. The condition involved the terminal ileum the cæcum and the ascending colon and in a few cases also the appendix. In two in stances there was an associated tuberculous pento nitis. In one case this was in the ascitic stage and in the other in the early plastic stage. In three in stances there was evidence of previous pulmonars tuberculosis but in only one of these cases was the process active Grossly there was a generalized thickening of the entire wall of the bowel with stenosis caused by old healed scar tusue. In several cases the strictured area was 5 mm or less in diam eter In most of the cases small healed or unhealed ulcers were found Microscopic examination resealed tubercles and bacilli in all except one case Glandular involvement was present in some cases but was extensive in only one instance

The two conditions most likely to be confused with hyperplastic occlusive lesions of the tecum ast appendicates and malignancy. The authors patients were till between twents, fix and tharty years of six and programmed and that years of six and generalized and local abdominal pain is 'e from three to each thous and accompanied by the gurgling of gas in the lowels nauses and vomining in some cases there was a history of constitution and in others a history of diarrhera. The attacks of the contraction of

Physical examination usually revealed a localized moderate tenderness with muscle spasm or resistance in the right lower quadrant of the abdomen and in every instance a persistent mass in the cacal result in the temperature was normal unless complications were present. The leucocy te count was normal except in two cases.

In every case except one the coentigen ras demostrated the signs of an ulcerative or hyperplastic lesson namely (1) a filing defect—non filing tires ularity natrowing and construction (2) general colonic hypermotility and (3) ideal stass. The greatest amount of information was obtained from examination following the administration of both a barium meal and a barium enema.

The operation of choice is resection of the dicased portion of the box with entercoclosions. This was done in six cases with only one death traaspitic technique based on the method of Scarff and salpite 1 to end to side anastomosis was used. In portain adjuncts to the treatment were a proximal prophilactic enterosions by means of a citheter the limiting of fluids by mouth an irrecting force or five days and the liberal indiministration of morothine to reduce peristals to the minimum.

the end results are not given but five of the eight patients are sufficiently well to carry on their usual JOHN H. WOLLSLY, M.D. vocations

Cinsburg L and Mein F Late Intestinal Ste nosis Following Strangulated Hernia 1 (1928 PXXVIII 204

The authors state that following the replacement of badly devitalized intestine in the abdominal cav its symptoms of obstruction may develop after a varying free interval but the obstruction remains incomplete for a long time. The symptoms are caused by fibrotic intestinal stenosis due to the thrombosis of small mesenteric and intramural ves sels resulting from mucosal necrosis and infection by organisms from the lumen of the bowel treatment indicated is an early short circuiting en tero anastomosis or bowel resection. Five cases are PMILC ROBITSHER M D reported in detail

Dragstedt C A Experimental Studies in Intesti nal Obstruction and Intestinal Tovæmias North est Med 1028 XXVII 400

Dragstedt discusses obstruction at various levels of the gastro intestinal tract. Complete obstruction or removal of the resophagus and stomach are not incompatible with life if provision is made for artificial feeding. The duodenum terunum ileum and colon have also been successfully removed

The intestinal secretion at the various levels is discussed Loss of gastric juice bile or succus entericus does not seem to have serious conse quences but in dogs loss of pancreatic juice causes death in from six to eight days with anoresia gas tric irritability vomiting and asthenia. It i con cluded that continued loss of certain secretions or failure to resorb them may account for many symptoms arising from obstruction at various levels

Acute obstruction in the duodenum or ileum causes severe symptoms. The blood chemistry findings are characteristic i e decreased chlorides a late increase in the non protein and urea nitrogen and an increase in the carbon dioxide combining power of the plasma

Isolated loops of bowel which are shunted by end to end anastomoses produce symptoms similar to those of obstruction at their respective levels If these loops are aspirated drained or removed earl rosymptoms develop Fluid from these loops injected intraperitoneally into healthy dogs causes characteristic symptoms of acute obstruction. This seems to prove that the symptoms are caused by

toxic pro fucts absorbed from the area of obstruction The author points out also that dehydration and loss of chlorides are important factors whether they are due to comiting failure of resorption starva tion or toxemia Loss of intestinal secretions is harmful because such secretions have a definite secretagogue action Excessive secretion favors di tention and lowers the resistance of the intesti nal mucosa to toxic material in the lumen of the bowel IALL W GREFLEY M D

Callagher W. J. The Effects of Injections of Acid and Trauma on Jejunal Transplants to the Stomach 1rd Sur TO 8 X 11 270

In studies of jejunal transplants in animals it was found that scar tissue with nutritional disturbance was present in all cases of chronic ulcer occurred in both anterior and posterior transplants The mucosal ulceration was caused by the operative trauma and the decrease in the blood supply to the ends of the transplants

An artificial hyperacidity produced by injections of various concentrations of hydrochloric acid failed to increase the occurrence of chronic ulcer

WILLIAM E. SHACKLETON M.D.

Allen N M Postoperative Jejunal Ulcers I Sure to 8 128

The cause of ulcers near the auture lines after gastro enterostomy is unknown Imong possible causes suggested are the use of clamps and non absorbable suture material a stoma which is too small or not well placed a hæmatoma in the suture line which becomes injected focal injection and operation performed in the absence of a pathological lesion

The ulcers may appear shortly after the gastro enterostomy or may not be found until many years later as in a case cited by Balfour in which they were first discovered fourteen years after the primary operation

Allen reports four cases which show the tendency of certain persons to develop ulcers regardless of the procedure carried out

The first was that of a man aged thirty seven year who was admitted to the hospital with a perforated duodenal ulcer. The perforation was sutured. Three years later the patient was re-admitted with ulcer symptoms and a posterior gastro enterostomy and appendectomy were done. Three years later he was admitted with a marginal ulcer. The gastro enter ostomy was then disconnected the stomach closed and an end to end anastomosis with the jejunum performed Six months later the national returned with a new duodenal ulcer and a partial gastrectoms was done. Seven weeks later he again had a marginal The was resected A short time later the patient returned with a perforation. The perforation was closed but death occurred the same day

The second case was that of a man thirty two vears of age who was first treated for duodenal ulcer Excision of the ulcer and posterior gastro enter ostoms were done. Six years later the patient was re admitted to the hospital with a marginal ulcer on the jejunal side of the anastomosis The anastomosis was disconnected and the ulcer resected. Unevent ful recovery resulted

The third case was that of a patient who was subjected to a gastro enterostomy in 1919 an operation for marginal ulcer in 1920 and a partial gastrectoms in 1923 Later in 1923 he re entered the host ital with a marginal ulcer. The ulcer was resected and the anastomosis re established Recovery followed

ulcer developed after gastro enterostomy. The ulcer was excit ed and the gastro enterostomy disconnected. From the e cases the author draws the following

r When marginal ulcer occurs the operation of choice is disconnection of the gastro-enterestomy

- resection of the ulter and repair of the stomach and jojunum
 2 It 1 not justifiable to sacrifice one half or two thirds of the stomach as a primary procedure when
- no assurance can be given that the ulcer will not recut

 3. Marginal ulcers occur just as frequently after partial gastrectomy as after gastro enterostomy.

 1. Enward Br. Br. W. W. D.

McMurrich J P and Tisdall F F A Remark able Heat Diverticulum 1 nat Rec 1928 xxxx

able Heal Diverticulum 1 nal Rec 1928 exter 3 o

The patient whose case is reported was a male infant thirteen months of age who developed a tumor like swelling in the right upper portion of the abdomen. Liver the swelling disappeared for a month and then returned permanently. Black stools had been passed. Before an operation could be performed, the child developed pulmonary trouble and

died trautopsy a remarkable diverticulum of the ileum was found. It arose from the intestine 5 cm above the ileocecal value extended upward parallel with the mesenteric surface of the ileum and lay between the folds of the mesentery. For 5 cm of and for an extent of 0 cm it was free in the most of the mesentery.

Grossly and microscopically it resembled the ileum in structure and its lumen was continuous

with that of the ileum

Its origin on the mesenteric surface of the intestine made its identification as a Meckel's divertiru

tine made its identification as a Meckel's divertirulium uncertain.

The author reviews several similar cases reported in the literature and discus es the embryological.

development of diverticula

Barron M C Sample Non Specific Ulcer of the Colon freh Surg 1928 xvii 355

The author reviews fifty cases of simple non specific ulere of the colon which have been reported in the literature and three cases of his own. He beset that such ulers are not steroral rio o upon the result of constitution and that the chronic manufacture of the strong of the stro

the stomach and audocaum.

Of particular interest were the vessel changes in
the region of the ulcer. Two cases showed vascular
lesions similar to those associated with endartentis
obliterans in the extremittes but in neither of the e

cases was there any associated leajon of the extremutes. The ulcers varied in size and position. Their long axis was either parallel with or transverse to the long axis of the gut

The author believes that in all cases the original lesion is an acute ulceration and that the inflam matory thi kening corresponds in degree to the

thronicity of the ulcer

Marked constipation was present in twenty-one of the cases reviewed In five it was not present and in twenty-seven it was not mentioned Melana occurred only occasionally. Severe hamor thange was rare. The diagnoss is difficult to extablish before perforation takes place. Simple uker of the colon has no pathogomomus signs.

The surgical treatment of simple ulter vanes according to the character of the ulter from simple puckering of the serosa over the base to resection

or a plastic operation

In conclusion the author states that simple elemanalogous to gaster or divodenal ulcer may occur in any part of the alimentary tract from the exopolagy to the rectum Simple ulcer of the colon is not in frequently associated with gastric or divodent slar frequently than as generally believed. It good pathological picture may closely simulate that of acrunoms Roscor R. Gearw. VD

Chapman J F Polyposis of the Large Intestine Am J Ro nigenol 1928 xx xx5

The author reports the case of a woman forty nine years of age who had suffered for five months from gnawing burning and hunger sensations in the upper part of the abdomen which were relieved by food and soda. She had also been constituted but the constitution had not increase?

out the constitution and not necessary as was put on physical examination as trends raise properties of properties and trends and trends are properties of properties and the properties of the properties of the properties are properties as the properties are the body of the stomach and a filing defect a the body of the stomach and a filing defect are properties of the pr

through readdy

A diagnoss of carcinoma of the transverse colon
was made and resection was done. When the resected specimen was opened the wall was found to
be 1 cm thick and the mucosa to be arranged in
a polypoid manner. The patient did not regunstrength following the operation. On re-examinal, retire stomach was found to be smaller. Due to
satisfy the stomach and filling defection. Autory
and the months after the open to be covered
to months after the open to be covered
by flat polyps. The walls were more than 2 cm
thirk and sin user was present.

In his brief discussion of this case the author states that the great extent of colon involved points away from the possibility of cancer toward the probability of polyposis. He regards the ease with which the barium passed through the colon in spite of the clinical evidence of marked obstruction as a significant finding in polyposis

CHARLES H HEACOCK M D

Hullsiek H E Multiple Polyposis of the Colon Surg Gynec & Obst 1929 xlvn 346

The term polyposis of the colon has been used to designate a single polyp scattered polypi or a polyposis in which the entire large bowel including the rectum is involved by thousands of sessile

adenomatous tumors

Lockhart Mummery classifies the adecomata occuring in the bowel as follows: (i) true multiple adenomata (2) poly po associated with hyperplastic thereculosis (3) multiple polypro associated with a old stricture of the colon and (4) a poly poid condition resulting from ulcerative colitis. The classification of Erdmann and Morris made on a chinical basis comprises two forms (1) the adult acquired type and (2) the adolescent congenital disseminated type in almost all of the recorded cases of multiple polypro of the colon the condution eventually became multiplant.

Polyposis of the colon appears to be hereditary as it can be traced through several generations. A large percentage of the members of families with the condition die at an early age from cancer of the bowel.

The operation indicated depends upon the presence or absence of malignancy the extent of the involvement the general condition and the techni alability and surgical experience of the operator. In the congenial type of case the usual extensive in volvement renders complete removal of the poly-

bearing area a more or less heroic task Hullsiek draws the following conclusions

1 There are two distinct types of polyposis the

acquired and the congenital

Multiple polyposis is most common in child hood and youth. In the cases reviewed, the average

age was thirty and nine-tenths years

3 The symptoms are usually present for a long time before medical attention is sought 4 Males and females are affected with about

4 Males and females are affected with about equal frequency
5 The probability of malignant change is high

Of the cases reviewed malignancy resulted in 34 6
per cent

6 There is a definite hereditary tendency toward

the development of polyposis of the colon
7 The mortality is high 47 2 per cent under all

forms of treatment

8 The treatment has not yet been standar lized

Morris II KARY M.D.

Larimore J W Roentgenology of the Colon 1m
J Roentgenol 1918 IX 101

Roentgenological studies of the olon bave been made largely to determine pathology o austomical changes. The author emphasizes the changes in physiology and attempts to correlate these with the clinical findings.

Certain anatomical variations are of fundamental importance. The length of the colon should be determined as it affects the total time of stool movements the amount of absorption and the degree of inspissation. In 13 2 per cent of 562 colons studed the right half was lengthened and the exerum was in the pelvis. Redundancy of the sigmoid was found in 18 per cent.

Cæcal stass is frequently associated with cæcal redundancy especially if there is a concomitant loss of muscle tone and in children frequently it causes pain migraine and cyclic vomiting. In the sigmoid the degree of motor impairment is directly proportional to the length of the redundant portion.

The change most frequently noted foentgenologically is decompensation of the muscle tone. In estimations of tonus the influence of the habitus must be considered Contrary to common belief constituation is more frequently to common belief constituation is more frequently to make the constituation is more frequently to the constituation of the constituation in the first constituation of the constituation of the constituation of the constituence of the constituence

Lack of vitamines leads early to colonic irritation. The irritation is manifested first by over secretion of mutus and hyperpensitaliss and later by degen erative changes. Chronic non infectious arthritis especially of the spine and pytitis are constantly associated with abnormal function of the colon.

Roentgenology cannot demonstrate changes in the walls of the colon that make for increased perme ability but it demonstrates the associated alterations of contour topography tonus and irritability CRANILS II HEACOCK MD

Willis B C The Treatment of Perforative Ap

pendicitis with Or without Abscess South V 1 1918 xu 622
Wills states that in fullminating cases of appendicitis given improper treatment there is a definite in rease in the mortality with the interest of the case of the c

rease in the mortality with the increase in the length of time elansing between the appearance of the symptoms and operation the reviews aga cases of acute perforative appear there is a support of the period of the period in the period

from July 1014 to August 1997. There we formed deaths a mortality of 6 per cent. In all of to-day cases drainage was established. In the few cases which the perforated appendix was securely, walkel off by omentum the omentum was not detached but was amputated with the appendix and there was no drainage. In 16 of the 23 fatal cases from 1 to many purgatives had been given.

During the same period 1730 patients were of er ated upon primarily for appendicitis with 32 deaths

emortality of a Sporcent Sex hundred in I twenty four 10t endectomies were secon lary

If the chagnosis of acute or perforative appendi citis with or without abscess is made with reasonable certainty the author operates immediately

one persistent fistula requiring operation for closure

has occurred

Only 5 hernix have been noted. In almost all cases from a to 5 pieces of I enrose soft rubber are used for drainage. These are placed according to the site of the abscess or perforated appendix. If the pelvis has been invaded care is used to carry the drain to the bottom and leave it there on withdrawal of the carrier. The drains are shortened after the third day and are removed by the seventh day

In 4 fatal cases a secondary enterestomy was performed. In the cases of a few patients who lived a primary enterostomy was performed

The postoperative treatment is described the complications are discussed and the cases in which an autopsy was performed are reported briefly main points in the article are summarized as follows:

Immediate operation should be done in all cases of acute perforative appendicitis regardless of the length of time that has elapsed since the beam ning of the attack

2 The subcutaneous administration of saline solu tion should be begun at the time of operation and kept up until the water balance has been re estab lı hed

The appendix should not be removed in all abscess cases Surgical judgment should be the guide in those cases in which it is left

4 Proctoclysis should be used only in cases of very limited neritoritis

Fowler's position should be employed only in cases in which the pelvis has been invaded by the infection

6 I attents with abscess and peritonitis above the brim of the pelvis should be turned on the right side 7 I rovision for free drainage should be made in all cases CARL R STEINGS M D

Smith R k Rare Complications of Acute Appendicitis Brit W J 1928 ii 339

Smith reports three cases of appendicitis with rare

complications The first was a case of acute appendicitis com plicated by a perforated duodenal ulcer. As both the physical examination and history most closely suggested acute appendicitis the abdomen was onened in the right iliac fossa. The appendix showed an acute inflammation and was removed. However as the condition of the appendix did not account for the large amount of free turbed flux I found in the peritoneal cavity a second incision was made in the upper abdomen A small punched out perforation was then discovered on the superior surface of the duodenum just di tal to the pylorus The perfora tion was clo ed by a pursestring suture and sutured over Dramage tubes were inserted through both incisions The patient made an uneventful recovery

I iter he returned for a gill blad I roperate a which wa found necessary at the first operation but feem t inadvisable at that time

The second case was one of acute gangrenous perforative appendicitis in the sac of a strangulate inguinal hernia. The patient was a man of seventy seven years of age. After operation for the hernia and appendicitis signs of intestinal obstruction de veloped and at a second operation a hand constn t ing the large bowel was divided and a excessions was done. Exacuations then took place by rectum but patient failed rapidly and died

The third case was that of a man twenty five years of age who had been operated upon two vern previously for appendiceal abscess. The abscess was drained but the appendix was not removed A ventral hernia developed in the operative scar 41 operation the hernia was found to contain a perfo rated appendix buried in omentum. The appendix was removed and the hernia repaired Recovery was uneventful T FRWARD RISHLOW M.D.

LIVER GALL BLADDER PANCREAS AND SPLEEN

Iliggins G M and Murphy G T The Phagocytic Cells (von Kupffer) in the Liver of Com mon Laboratory Animals Ingl Ree to 8 al

Since it has been shown that the reticulo endo thehal system with its manifold subdivisions i inti mately related to both physiological and pathologi cal processes it becomes increasingly important that complete data be compiled concerning the origin function and ultimate disposition of the cells com Immediate interest in the pri ing this system reticulo-endothelial system is essentially restricted to the liver in which the stellate cells originally de-

scribed by you Kupffer constitute a structure who e function 1 at once defensive and metabolic This study of the stellate cells was approa hed with definite objectives Although many descriptions of the cells are available there is no adequate comparative study of them as they occur within the group of vertebrate animals Nathan (1908) studie i the comparative anatomy of the von kupfler cells in a number of vertebrates but reported fe'v detail I ittle is known regarding the origin of these cells from primitive vascular endothelium and the extent to which they may phagocy tose in fetal life Before the cytologi al physiology of the liver is understood it will be necessary to determine the life cycle of von Kupffer cells their fate after the ingestion of particulate matter and whether they become active polyblasts within the blood stream unfer normal conditions as well as in certain pathological state This report i concerned only with the first two of these problems and is restricted to mammils

The use of vital dies in the delineation of the stellate cells has been for the most part satisfactory India ink in dilute suspension and iron stains have been frequently employed. The authors have found the graphite 'thydrokollag 300 which was first described by Drinker and Churchil in 1927 a most excellent medium for the study of the stellate cells of the liver They have devised a method of pre paring the material which differs somewhat from that employed by Drinker and Churchil

In the nathors study, small quantities of hydrololler goo depending on the size of the animal were injected directly into the circulation. At variing intervise following the injection the animals were killed and the livers fixed in corrosive active and stanced with hematory has and cossir. The most satisfactory results followed fixation of the liver in active directly into the portal wing the corrosive active directly into the portal wing the

A study of the distribution of the stellate cells was made on the dog cat swine rat rabbit guinea pig pocket gopher striped gopher and monkey. The preliminary observations on the form position and frequency of the cells in laboratory mammals led to the conclusion that the cells are actively phagocytic toward particulate graphite injected into the blood. Their response to the foreign substance is immediate a fraction of a cubic centimeter in jected into a mesenteric year is at once engulfed by them They literally become engorged at once Even when sections of the liver were taken immediately after the intravenous injection the stellate cells were found so well laden with the graphite that a detailed cytoplasmic study was impossible. Without the delineation obtained by the injection method the picture of the phagocytic cells is entirely inadequate The extent of the cells is never so completely realized as when it is seen after extensive phago cytosis of the particles of graphite and one wonders whether such remarkable distensibility is not corre lated in some way with the amount of work the cell must perform and that in its resting mactive state its form and size are considerably less conspicuous The authors were unable to substantiate the obser vation of Havet (1925) that these cells lie between the hepatic endothelium and its trabeculæ of the liver They conclude with Schilling (1909) Zimmer mann (1923) and others that the cells are an integral part of the endothelium but directed in their position toward the lumen of the sinusoid

In all of the animals studied there was relative similarity in the size and proportions of the stellate cells. In cectain animals the cells were more numer one considerably larger and definitely stellate in other flary were more stocky and without the finer other flary were more stocky and without the finer other flary were more stocky and without the finer other flary were more stocky and without the finer of the flary were more stocky and without the flary of the flary were the stocky of the flary phagocytic activity of these cells was characteristic of all of the heptic organs extamined

Copher G H and Dick B M Stream Line Phenomena in the Portal Vein and the Selec tive Distribution of Portal Blood in the Liver Arch Surg. 1928 XVII. 408

Copher and Dick attempted by experimental study on animals to confirm the theory of the pres

ence of segregated streams of blood in the portal vent and their subsequent distribution to definite parts in the liver. The original work on this problem and the anatomy of the portal circulation in the dog are reviewed.

By the use of emulsified iodized oils the authors found that there is no intrahenatic anastomosis be tween the larger branches of the portal vein. The coloring material used was trypan blue. One gram of the crustals was dissolved in 15 c cm of blood serum and as a rule 3 c cm of this amount were used at each intravenous injection of the portal radicals Following injection of the splenic vein almost all of the left lobe of the liver but only a limited area of the extreme right lobe was colored by the due. Most of the right side of the liver retained its normal color Injection into a small year on the lesser curvature of the stomach uniformly stained the left half of the On injection into the superior pancreato duodenal year, the dye was carried to the right side of the liver and the two right lobes were deeply stained. Due injected into a mesentenc vein in the highest part of the jejunum was carried to the two extreme right lobes of the liver. When a small year in the meso appendix was injected the die was transported to all parts of the liver A similar distri button was found when a vein on the mesentery of the left large bowel was injected Posture did not affect the dissemination of the dye When the dye was injected into different branches of the portal circulation it was possible by transilluminating the portal vein by candlelight to see sharply defined intraportal currents and to note the extreme rapidity of the flow in the portal vein. The volume of flow in the portal vein is estimated at 60 c cm per minute ner 100 gm of liver

The authors conclude that blood carned to the left lobe of the liver is draund principally from the abdominal organs that are not strictly engaged in the diagration or absorption of lood is et bespleen stom ach and colon whereas the blood carried to the right side of the liver is collected from the almentary tract where the products of digestion are absorbed They were able to demonstrate three definite stream They were able to demonstrate three definite stream the splenic vein the large mesenties were much the splenic vein the large mesenties were much the splenic vein the large mesenties were more than the splenic vein the large mesenties were more than the splenic vein the large mesenties were more than the splenic vein the large mesenties were more than the splenic vein the large mesenties were more than the splenic vein the large mesenties were more than the splenic vein the large mesenties were more than the splenic vein the large mesenties where the splenic vein the large mesenties where the splenic vein the large mesenties where the splenic vein the sple

A male Arab was admitted to the hospital presenting all the signs and symptoms of a suppurating hydatid cist. In addition, there was a deep interus At operation a superficial suppurating cyst of the right lobe of the liver the size of an ostrick egg. was marsupialized For several days the general condition showed improvement but the icterus per sisted and the patient died from cacheria a month

Autopsy disclosed a second suppurating cyst of the same size as the first one but situated in the depths of the liver There was a communication between this cost and the right branch of the henatic duct A collapsed daughter cyst partially occluded the common duct

Another case reported by the author was that of an Arab of forty six years who suddenly developed an obstructive icterus while he was in the hospital for the treatment of urethral stricture. His tempera ture rose to 102 degrees I and the icterus increased A mass the size of a man's fist was discovered in

the region of the gall bladder

at operation the gall bladder was found to be the size of a turkey's egg. Above and lateral to it was a large hydatid cyst containing many daughter cysts and a purulent fluid strongly tinged with hile The gall bladder also contained many cysts Both the cyst and the gall bladder were drained

The first days after the operation there was a profuse discharge of bile from the cyst but none from the gall bladder. The acterus persisted. At a second operation performed on the fifteenth day the common duct was found greatly dilated and when it was opened a collapsed cyst escaped with a flood of bile. The duct was drained. The patient

died a few hours later

Among the author's 170 cases of hydatid eyst of the liver there were 27 cases complicated by a communication between the cyst and the bile tract These cases are grouped as follows (1) cysts com municating with the bile ducts without causing obstruction (2) cysts opening into the gall bladder and (3) cysts with migration of daughter cysts communicating with the bile ducts and producing obstruction

In the first group there were 15 cases The cysts contained bile and as a result of the communication they suppurated Sometimes they contained air In such cases the cysts suffer from the communi cation and it is to the cysts that the treatment

should be directed

In the second group there were 8 cases In such cases the gall bladder suffers from the communica tion rather than the cyst The gall bladder should be drained directly or through the cyst if the open ing is large. As the cystic duct is usually obstructed drainage of the gall bladder is of no avail if there is actorus due to obstruction of the common duct

In the third group there were 4 cases In the 2 which are reported in this article the treatment was directed to the cyst and gall bladder and the results were poor In the 2 others the common duct was attacked primarily and the cysts secondarily and both patients recovered From this experience the author concludes that whenever there is acterus the common duct should be operated upon first

ALBERT I DEGROAT M D

Hillebrand H Duodenal Irrigations In Cases of Choledochus Fistula (Duoden lepuelungen ber Choledochushstel) Zentralbl f Chir 1028 1 soo

The author reports a case in which following a cholecystectomy with drainage of the hepatic duct, there remained a fistula through which all the bit drained Internal medication was without effect, as were also attempts to force the drainage into the intestine by tamponade of the fistula. After drawing for two months the tract closed up in a few days following two irrigations with 300 ccm of 15 per cent hot magnesium sulphate solution

In another case the fistula closed more qually

following the irrigations The author concludes that the persistence of such fistulæ is due to a marked chronic catarrhal swelling of the duodenal mucosa

Richter II M and Zimmerman L M Closure of the Abdomen without Drainage After Open tions upon the Bile Tracts An Sug 198 lxxxviii 187

Primary closure of the abdomen in gall bladder operations has been practiced by the authors for twelve years and the range of its indications has been widened by experience. The incision is closed after simple cholecy stectomy operations on the common duct and transduodenal choledochotomy This is done in both acutely infected cases and chronic rela tively aseptic cases The spilling of bile or duodenal contents in the operative field is not considered a contra indication For persistent liver occupy a gauze pack is employed. In operations on the com mon duct a drain is used when accurate suture is impossible or there are other contra indications to

primary closure

Early operation has been found to be of distinct advantage In the cases in which simple cholecyster tomy was performed the mortality was I 29 per cent whereas in cases requiring work on the common duct it was 14 28 per cent. The mortality in cases in which primary closure was done was 2 68 per cent whereas in cases with drainage it was 10 27 per cent However the poorest risks and the most difficult cases were included in the drained cases. Of the deaths in the cases without drainage only I was due to perstonitis In 204 cases in which simple cholecys tectomy was done with primary closure the only death due to an abdominal condition was the result of pancreatitis The other death in this series was due to pulmonary embolism which occurred on the day of the patient's discharge In the entire series of 262 cases without drainage there was only I death due to peritonitis

The postoperative course is easier in cases without drainage than in those with drainage found that when drainage is established there is more pain particularly pain radiating to the shoulders and more tympany nausea and vomiting than in cases without drainage the increase in the pulse rate and the temperature is greater and the period of convalescence is prolonged The presence of the drain predsposes to infection hermia and adhesions increases the diaper of thrombosis embolism and secondary hemorrhage interferes with the normal bealing process and causes drainage of bile which would not otherwise occur. In cases with primary closure the escape of blee which is associated with drainage and the pain which is caused by the remain of a drain are a voided. It caused by the remain of a drain are a voided a fine principle of the properties of the properties of the properties of the properties with highly infected bile.

The technique employed by the authors is separate ligation of the cystic artery and duct without burial of the stump of the cystic duct. As the perito neum has more protective power than the retroperitoneal tissues it is safer to tie the stump than to attempt to bur it behind the peritoneum.

From the evidence presented in the series of cases reviewed the authors conclude that primary closure is sate and is preferable to drainage except in the presence of special indications for the use of a drain age tube

F S PLATE MD

Henschen C The Surgical Anatomy of the Splenic Vessels (Die chirurg sche Anatomie der Allagefaesse) Schaes ned Behnschr 1928 lvin

After a detailed description of the extrasplenic portion of the vascular supply of the splene the surgual topography of the splene resels and the collateral circulation of the splene cartery. Henschen gives rules for surgery of the spleen which are based on the vascular anatomy.

In order to save for the body the blood contained in the spleen when the spleen is to be removed the splenic artery should be ligated first the blood milked into the venous trunks adrenalin and pituitin injected into the spleen and the splenic vens then heated

Splenettomy and resection incisions should be made transversely. In resection great care must be taken not only in the zone of the various entering vascular branches but also in that of the intra-splenet transverse system of vessels which near and partilled with the hilbs run in a cramocould idirection. In resections of the hilbs zone of anastomo sas should be ligated. Whenever possible the resection, should be extended only to this region not directly into it.

Suture of a torn spleen and resection of the spleen should always be performed under temporary constriction of the spleenic circulation. Constriction may be continued for ten minites without diamaging the organ. As the spleen bleeds less when it is pulled up out of its bed the security of the lighture should be tested after the organ has been put back in place by injecting methyline blue into the attern.

With regard to keation of the ves. els of the hius of the spleen as an independent operative procedure Henschen states that only the artery should be ligated the veins being left free to carry off the catabohe products from the interior of the spleen

The ligation should be done at a site where it will not interfere with the blood supply of the pancreas. In the cases of large tumors of the spleen with ad hissons the artery should be exposed farther away from the organ either above or behind the pancreas—if necessary near its origin.

In cases in which the collateral circulation is poor the organ should be surrounded with omentum and if necessary drainage should be established to protect against the danger of organ necrosis and towamia. Instead of the ordinary ligating functional throttling of the splenic arters with free fascial transplants is advisable.

Hutchison R Chronic Splenomegaly in Child hood Diagnosis and Treatment Brit U J

Chronic splenomegalies of childhood may be class stied as follows (1) chronic infection (2) tropical splenomegaly (3) splenomegaly in metabolic diseases (4) Gauchers disease (5) splenomegali in diseases of the blood (6) splenomegali vasociated with cirribosis of the liver (7) splenomegally due to splenot thrombosa (8) the splenomegali in spleno (Bartis disease) (5) the splenomegali in spleno (6) that is the sales (6) the splenomegali in splenomegali in the sales (7) the splenomegali in splenomegali in the sales (8) the splenomegali in splenomegali in the sales (8) the splenomegali in splenomegali in the sales (8) the the sal

Tumors cysts new growths and abscesses of the spleen are extremely rare

3. In cases showing a negative Wassermann reaction no enlargement of the lymp glands and no char acteristic leurosytic picture but in which there is some degree of anzima associated with leuropania increased fragility of the red cells or hymnatemests splenectomy seems advisable. With regard to cases of Gauchter's disease and cirthosis of the liver there removaine the solven

WILLIAM E SHACKLETON M D

Billings A E Abscess of the Spleen 1n : Surg

Billings reports 3 cases of abscess of the spleen which were operated upon with recovery relopment of a splenic abscess depends almost in variably on the deposit in the spleen of pyogenic organisms from a primary source of infection by way of the blood stream The source may be a suppurating focus obvious or concealed in any part of the body Splenic abscess is most apt to occur when there is a general blood stream invasion by pus producing organisms and the infection has reached the magnitude of a septicopyæmia such as is observed in cases of acute ulcerative endocardition and other virulent generalized infections caused most commonly by streptococci and staphylococci The causative agents include almost all of the progenic organisms Splenic suppuration has been at tributed to many of the acute infectious diseases such as influenza smallpox and rheumatic fever Certain of the specific fevers particularly enteric typhus and relapsing fevers are believed to play a special role in its etiology None of the recently

reported cases has been attributed to malana but may not be manifested for many months or years Luttner and others ranked malaria next to typhoid in etiological importance

In 3 600 autopsies performed at the Pennsylvania Hospital 24 cases of abscess of the spleen were found In 5 cases the abscess was associated with acute peritonitis due to streptococcic or staphylo coccie infection. In 3 the abscesses were multiple and in 2 they were small and solitars. In none had there been any symptoms suggestive of splenic in flammation. In 2 cases the antecedent infection was suppurative appendicitis in 1 a staphylococcus progenes aureus infection of the upper hip with septicamia and in I suppurative cholecystitis with liver abscess One case was an example of infection Elevation and fixation of the left diaphragm is very of the spleen with abscess formation by propagation

following perforation of the stomach Most abscesses of the spleen result from the breaking down of infected infarcts The symptoms of splenic abscess are exceedingly variable in character and intensity. In some instances the manifestations that might be considered more or less typical are overshadowed or altogether obscured by either splenotomy or splenectomy the infection of which the suppuration in the spleen is only a complication. The seventy of the symptoms of abscess of the spleen depend upon whether the course of the condition is acute subacute or chronic and somewhat also upon the etiological thorax necessitating a transpleural or transdia factor Of the causes typhoid fever probably in fluences the course and character of the symptoms anterior surface or lower pole will usually be more more strikingly than any other infection. In some accessible through the abdomen. Splerectomy is instances an abscess may develop during or soon after the primary infection but more commonly there is an interval of a few weeks or months before supparation takes place The development of the removal of the organ can be effected without duffe abscess is sometimes mistaken for a relapse. In culty or danger of disseminating the infection exceptional cases the signs of abscess formation

after the attack of typhoid The local symptoms may be so mild as to be overlooked

As the evolution of the abscess progresses from the upper pole toward the thorax or from the lower pole toward the general peritoneum symptoms of a pleutopulmonary or abdominal nature will develop When the extension is toward the thorax there will be diaphragmatic and pleural involvement characterized by pain of varying intensity located in the left hypothondrium and lower thorax and radiating to the back and sometime allo to the left shoulder

ray examination 1 of great diagnostic aid. suggestive and is a constant finding when the infection has extended to the subphrence space as it usually the case in abs ess of the upper pole Ex ploratory puncture is also a valuable aid to diagnoss and may give the needed information in a doubt! !

The surgical treatment of abscess of the spleen is proach to the abscess may be gained by the trans pleural the abdominal or the retropersoneal rente The route chosen will depend upon the di ection of the abscess invasion Frequently this is toward the phragmatic approach. An abscess situated in the indicated only in rather ex eptional cases in which the organ is comparatively free from adhesions the infection is confined within the capsule and the SAMUEL KANN UD

GYNECOLOGY

UTERUS

De Sa II A Case of Double Uterus J Obst & Gynze Brit Emp 10 8 xxxv 522

The case reported by the author was that of a wann forty two years of age who sought treatment for severe pelvic pain. The patient had had five normal pregnances her menstrial periods had all ways been regular and normal and her general

development was good

On physical examination a double uterus was suspected from the discovery of a pyriform mass in each form; the absence of a typical uterus and the presence of remnants of a vaginal septium. This suspicion was confirmed at exploratory operation although, Y any examination following the injection of lipiodod had failed to reveal the anomaly. Hyster extony was not permitted.

HARVEY B MATTHEWS M D

Masson J C and Parsons E Cystic Cervicitis
with Special Reference to Treatment by Cau
terization Am J Obst & Gynec 192° No. 348

A clinical study of chronic cystic cervicitis in a hypertriphied cervit was made in order to compare the results of cauternation with those following am the results of cauternation with those following am simple office cauternation but a thorough procedure simple office cauternation but a thorough procedure on an anasthesized patient or with the operative field blocked off with parasascral or caudal anesthesis to that all of the cysts were punctured and their walls thoroughly destroyed this procedure destroying considerable itsues but not interfering with the blood supply to the endocernir. The majority of amputations were of the Sturmborf type Of the 1 or 1 cases and 1 so were treated by cautery and 481 by a found of the control o

The nondence of cystic cervacius at the Mayor Cleva bies than a usually reported 07 of 600 women examined at was found in a 565 (10 per cent). Over one half of the aonem treated nere more than fortry cars of age as operative measures are not usually advised for his condition during the reproductive period. The most important single factor in the citology of the condition is the trained of widtips pregnancies. Sterlity was a complaint in only too the cases.

The chief symptoms were leucorrheas (2) per cent) menstrail rregularities (23,4 per cent) pelvic pain (23,2 per cent) pelvic pain (23,2 per cent) and irrelea ant symptoms (30 per cent). The inducations for cautienzation or amplitation of a hypertrophical eroded cystic cervix depend upon the local condution of the cervix and upon the symptoms. After convolete bealing the local appearance of the cervix following thorough

cauterization is similar to that seen after a low am putation

According to the findings of the pathological

study of the tissue removed and the follow up of the patients treated there is no indication that cystic cervicitis is a precancerous condition. The results show that cauterization is as effective

The results show that cauterization is as effective as amputation in the cure of leucorrhom and that the general health is not affected by the cervical condition to any great extent

Pregnancy occurs more frequently miscattinges are less frequent labor is more often normal and lacerations occur less frequently following thorough cauterization than following amputation of the cervix

Simon H E Hæmatometra A Report of Twenty Three Cases Surg Gynce & Obst 1928 xlvn 356

Hæmatocoloos hæmatometra and hæmatosal pura may deselop from obstruction in the lower part of the female genital tract preventing the nor mal escape of the mensitual blood from the uterus. The obstruction may be congenital or acquired When it is congenital it usually involves the vagina and may be simple or associated with more complex or usually involves the cervix except in the agent it usually involves the cervix except in the agent of the control o

The symptoms of hæmatometra are typical. There is absence or cessation of the menses coincident with attacks of severe pelivic or abdominal cramps usually occurring about once a month. The attacks of pain tend to become more severe and are asso cated with progressive enlargement of the uterus.

The treatment depends upon the requirements of the individual case. When the risk of the conservative operation is not prohibitive the genital organshould be presenced during the childbearing age. In the presence of certain complications virginal driange should be combined with abdominal exploration. In some cases radical surgical measures should be adopted primarily.

Allen E and Bauer C P Autotransplantation of Endometrum in the Eye of Rabbits Surg Ginec & Obst. 1928 Alvu 330

Traut H F Adult Human Endometrium in Tis

sue Culture Surf. Gyn. & Obst. 19 8 nivu 334.

In the experiments on rabbits reported by Attex and BAUER the abdomen was opened by a midline incision under ether auxisthesia a small portion or all of the uterus was removed and placed in warm normal sait solution and as soon as possible there.

after small pieces of the tissue were implanted in the anterior chamber of each eye. In the cuses of four of the rabbits small bits of testicular tissue were implanted in the eye in order to obtain a comparative check on growth and reaction. The authors found that with a little practice they could readily insert pieces up to the size of a split pea. After the abdomen was closed a small piece of

tassue was implanted in the abdominal incision. The eyes were first prepared by clipping the lidhars short with ordinary finger nail sensors. A drop of increuse/frome dropped into each eye furnished of increuse/frome dropped into each eye furnished with the eye faced and slightly rotated. In including the content of the limbar was made through the corners at the limbar with an ordinary cataract kinfe. As a rule enough flind excepted for educe the inter-ordinar tension sufficiently for the easy insertion of the implant in the anterior chamber on the end of a blant ree ey spatial. In the rupted suture to the first forty eight fours had rupted suture to the first forty eight fours.

eve open vithout any form of dressing \(\) successful take was obtained in forty four of the fifty eves \(\) The eves were either enucleated separately or when the second one was to be re moved the animal was killed with ether and an autopsy was performed \(\) The eyes were fixed in Zenkers solution and sectioned in celloidin \(\) The time before their removal ranged from two to four

teen months

Allen and Bauer draw the following conclusions

t The epithelium of the endometrium in rabbits his a mirked tendency to proliferate

2 This proliferated epithelium tends to retain its secretory ability and to reproduce gland like spa es and cystic cavities
3 Its ability to invide other tissue is not so

3 Its ability to invide other tissue is not so marked as its tendency to proliferate but seems to be quite definite

4 Ectopic endometrium epithelium did not tend to produce a connective tissue reaction in these

transplantations
3 Endometrium transplanted to the eye of rab
bits will undergo the same decidual reaction as take

place in the pregnant uterus

6 Transplanted endometrial stroma and uterine
mu culature remain viable for long periods of time
without showing any tendency toward further

without showing any tendency toward further growth
7 Testi ular or peritoneal epithelium did not show a sim lar ability to proliferate or invade

8 In rabbits the abdominal wall does not seem to favor the survival of implanted endometrial

TRAUT secured endometrial tissue from the cay ity of uters freshly received from the operating from While still warm and sten e the uterus was opened and a small portion of endometrium has removed and placed in warm sterile Engr 1s solution. The sterile endometrium was carefully washed to in several changer of Rurger's solution to free it in several changer of Rurger's solution to free it.

from all traces of blood. The tissue was out minvery small fraginents and these were transplant into a medium composed of a solid part formed from a fibringen supersons and dilute embryonc estate containing a trace of sodium linedest to present digestion of the clot and a fluid part compect of tyrode solution. The fibrinogen suspension as an troduced first being diluted with an equal volume of tyrode solution so that the whole volume sair of tyrode solution so that the whole volume sair of the contract of the contract of the contract of solution containing a trace of sodium insolets and of g. c.m. of duttee embryonic certaint were the

o 5 cm of distate embryonic extract were then added. The fragments of endometrium were care fully placed in the medium equidistant from our another before coagulation took place. The medium was then allowed to solidify and recm of tyrode solution was added.

solution was added. The rate of growth of cultures was measured as forty eight hours. The cultures were placed as projectoscope which cast a shadow of skowae was infication. The shadow was outlined not its stransaction of the shadow was outlined and its stransaction. The shadow was proposed to shadow with the shadow was shadow with the shadow was shadow with the endometrial cells in the sund media used. This found to be about half as Jast as that of embrous cells in the sum media.

cells in the same media.

It was found that the growth occurred awards that the found of the through of connective the superiors of the explaint. The equitable (red) series of the capital transport of the connective through the foundation of the cultures and hy carefully sectioning a fine to so as to obtain only the penipheral cells; at was too so to obtain only the penipheral cells; at was too

sible to obtain pure strains of stroma cells.

A pure culture of stroma cells growing at a known rate of growth in a medium of frown composition having been obtained it seemed destrable to determine it possible what effect foll cular fluid and set actificate of the culture if it was used to replace the embronia culture if it was used to replace the embronia.

estract The cultures with follocular fluid survived six of eight days with slight cell migration but no real growth When the corpus luteum extract was used in place of the embryomic extract the r sult was quite different there being a most fuxurant and rapid growth of the cells which equalled and in some instances exceeded the rate of growth in the cultures containing the embryonic extract Appar ently the corpus luteum extract contain substances analogous to the e contained in embryonic extract ie substances which enable the cells to metabolize some portion of the culture medium into protoplasm and to reproduce themselves. This seems to be much more stable substance than that contained in embryonic extract as temperatures up to 65 degrees C for filteen minutes did not affect its potency to any appreciable extent ALBERT M VOLLMER VI D

Shaw W Mixed Tumors of the Uterus and Va gina J Obst & Gynac Brit Emp 1928 xxxv 498

The term mixed tumors has been applied to enoplasms consisting of cells foreign to the particular organs in which the neoplasms are found together with masses of sacroma cells. These tumors are of especial interest because of their peculiar hiological structure and because of the problems are of the problems of the p

The author believes it is convenient to divide these tumors into three groups those originating in the body of the uterus those originating in the cer vix and those originating in the vagina. From his study he draws the following conclusions

I The grape like sarcoma of the cervix usually contains striated muscle cells and cartilage and should be included in the group of mixed tumors. The average age of persons developing such a tumor is thirty four years. The neoplasm does not occur typically before puberty or after the menopause. Its maliciance via extremely high.

2 Mixed tumors similar to those of the cervix originate in the body of the uterus but they are

They develop after the menopause
3 Some of the vaginal sarcomata of children

belong to the mixed tumor group

4 The mixed tumors contain heterologous tissues
Striated embryonic muscle cells cartilage fat bone
and elastic tissue have been found in them in addi

tion to sarcoma cells
5 There is no satisfactory explanation of the ori
gin of mixed tumors Harvey B Matthews M D

Gemmell A A Cystoscopy in Carcinoma of the Cervix J Obst & Gynac Brit Emp 1928 xxxv

465
From a study of rrr cases of cancer of the cervix

the author draws the following conclusions
I In clinically inoperable cases cystoscopy is
unnecessary but in clinically borderline cases it is
of great value and may be the chief factor indicat
ung the operability of the condition

2 All cases judged operable should be subjected to cystoscopy to determine whether there is any extension of the condition in an anterior direction which has escaped detection on bimanual examination.

3 Cystoscopy cannot be replaced by a study of the urmary symptoms

4 The limit of operability is denoted by transverse radging. Budging of the bladder wall is only mechanical Circulatory changes are a part of the pelvin hypersmin associated with the disease Bulderman is due to invasion of the bladder wall by the control of the control of the control of the best of the control of the control of the control thereto. The appearance of the difficulties likely to be encountered in the dissection of the uterus.

5 The cystoscopic appearance is of value also in the prognosis Harvey B Matthews M D

Ward G G and Farrar L k P Radium Statistics of Carcinoma of the Cervix Uteri Two More Five Year Series J Am M 1ss 1928 Yea 296

In the technique used by Ward and Farrar in the treatment of cancer of the cervix utera both radium needles and a tube are used and the dosage varies from 400 to 4 00 mgm hrs The radium tube is anchored to the cervix and the needles are placed in the broad ligaments and in the cancerous tissue in the vagina. The vagina is distended with gauze to prevent contact of normal tissue with the radium and a retention catheter is left in the bladder to keep it empty during the treatment. In the cases of anæmic patients blood transfusions are given before the irradiation is begun. After the irradia tion the patient is urged to be out of bed early to insure good drainage in case of purulent discharge and a potassium permanganate douche once or twice a day is ordered. When she leaves the hospital, the nationt is instructed to report once a month for

After irradiation the carcinoma retrogresses. As the slough disappears it is replaced by connective tissue and the cervix and vault of the vagina become

nale and contracted
The authors recommend small doses in preference
to measure doses of radium with repeated irradia
tion as indicated. This they believe lessens the
chance of destroying the normal tissue. They have
been unable to predict the end result of therapy
based on the type of cancer cell found. They be
is an extremely important euloogical factor especially in women who have been lacerated at child
birth.

In tabulating the results obtained by irradiation the authors group their cases according to Schmitz's classification which gives a sufficiently definite ana tomical description of the extent of the lesion. They report the outcome of the treatment only after five years in order that their results may be compared with those obtained by surgery which are usually reported by surgical clinics five years after operation In their statistics of deaths from cancer they include the cases of all patients who could not be traced or who died from any cause. They state that this may seem unfair in some instances in which it is difficult to trace cases or in hospitals that do not have a follow up system but if the rule is generally applied it can affect only a small per centage of cases and may lead to a better follow up system This procedure was followed by Heyman in a statistical analysis of more than 8 000 cases The authors give also the operability rate and the primary mortality in their cases for comparison with cases treated by radical operation

of 13.4 patients treated by radium irradiation alone 23 I per cent were still living at the end of five years. In the statistics of 17 clinics. Heyman found the incidence of five year cure to be 16.3 per cent. In the authors cases of operable carcinoma.

limited to the cervix a five-year cure was obtained in 53 i per cent whereas in similar cases treated surgically Heyman found a five year cure in 20 6 per cent The primary mortality from the use of radium was 1 6 per cent and the primary mortality of radical operation 17 2 per cent. These statistics demonstrate that irradiation of early carcinoma of the curvix gives better end results than radical operation with a lower primary mortality and less morbidity CHARLES F DU BOIS M D

Mowat G T The Results of Radium Treatment in Carcinoma of the Cervix Uterl Glasgou M J 1028 CX 142

Mowat reviews the results obtained in fifty cases of carcinoma of the cervix treated with radium Forty eight were inoperable on account of extension of the lesion to the vagina or the broad ligaments

In seventeen cases which were treated in the period from July 1925 to September 1926 the treatment consisted in the use of 30 mc in the uterine cavity 15 mc in the base of each broad ligament and 5 or 10 mc in and around the cervix totaling 100 to 140 mc and left in position for four days The dosage amounted to from 7 000 to 0 000 me hrs. Three apple ations were given at six week intervals (Note It is not stated that each of the three treatments amounted to 7 000 mc hrs)

In seventeen cases treated in the period from September 1026 to March 1027 radium bromide was employed ou mm platinum irridium needles containing 5 10 or 20 mgm of the salt being in serted in the same manner as the emanation From 00 to 150 mgm were used and left in place for from twenty four to forty eight hours The total dosage ranged from 3 000 to 8 000 mgm hrs

In six cases from go to 140 mgm were used within the uterus and in approximation to the mass in the vagina for from twenty four to forty eight

hours

In ten cases from 100 to 140 mgm were applied within the uterus and vaginally against the mass and three weeks later deep 't ray treatments were

given at intervals of six neek.

The reaction showed three stages (1) sloughing and increased discharge indicating destruction of cancer cells (2) disappearance of the slough followed by granulation during the third week and (3) fibrosis Fibrosis the desired result was complete in 64 per cent of the cases and partial in 37 per cent Absence of ulceration and complete scar for mation characterized this stage. The microscopic findings in the various typical stages are described in detail and shown in photomicrographs

The following conclusions are drawn

Temporary or permanent local destruction of malignant cells is accomplished in the majority of cases Scar tusue eventually forms

2 In a mi onty of cases isolated clumps of malignant tells remain quies ent in fibrous tissue but a smaller number regene ate and result in clinical recurrence

3 Radium has a local destructive effect on

malignant cells

While complete disappearance of chincal and in croscopic malignancy from the cervix and venes occurred in most of the cases the large majority of the patients are dead. Of thirty four patients with monerable carrinoma who were treated in 1025 and 1926 none is alive Better local results were obtained from one treatment with 140 mem, of radium than from repeated smaller doses Postmortem ex amination in twenty-one cases revealed infiltration of one or both broad ligaments and the uterosami ligaments but the body of the uterus was generally free from the disease. In the majority of the cases hy dronephrosis had developed either from pressure by the tumor or scar tissue contraction due to the radium. In eight cases the vaginal vaint was line from disease. In six cases there was a vesicovagnal fistula and in two cases a rectovaginal fistula la eight cases secondary nodules were present in the abdominal gland , the liver or the lung but in no instance were the bones affected

Six of the patients died as the result of the radium trradiation-four from sloughing and two from tel lulitis and abscess formation-and the others from local pelvic extension. In eight of the fifteen other cases there was local eradication of the primary growth Secondary growths were precent in eight

cases The postmortem findings showed that in both treated and untreated cases extension occurred pra cipally through the broad and uterosacral hyament. and with late glandular involvement Secondary

distant metastases were found in both senes The author concludes that squamous celled can cer of the cervix spreads mainly along the lymphatic channels and by direct infiltration from the cervis The glands of the peivis are involved late and then probably as the result of the pressure of the enlarg

ing growth rather than as the result of emboh m The chief problem in radium treatment is whether all of the malignant cells can be brought within the range of the radium The range is from 3, to ; in In inoperable cancer of the cervis radium irradiation is not curative but it gives from nine to eighteen months of active life and relative comfort In operable cases either radium or overation ef fects a cure if the primary growth is the only A TAMES LABERY M.D. malignant tissue present

ADNEXAL AND PERIOTERINE CONDITIONS

Douglass M Torsion of the Palloplan Tube with the Report of a Case Producing Acute Gan grene of the Tube 1m J Obn & Gin c 1924

Douglass reports a case of torsion of the fallogian tube in a para in thirty five years of age For two weeks prior to her admission to the hospital the patient had cramp-like pains in the right lower quadrant of the abdomen At the time of he ad mission she had a fever of 38 5 degrees C a leutocyte count of 14 000 and leucorrhea After expectant treatment for eight days the temperature returned to normal and the leucocyte count dropped to 10 000 Vagunal examination then revealed posterior to the uterus a soft cystic mass about the sure of an orange. The uterus was of normal size

Laparotomy revealed a dense black gangrenous abound down by adhesions of the uterus and the right tube. After the adhesions were broken the right tube was found twisted on itself three times this torsion accounting for the gangrene Microscopic examination showed acute necross of the right tube the endosslipmx had been destroyed

The factors responsible for torson of the falloyan tube are (i) the anatomical position of the tube with its attached messal extremity and its lax distal extremity (a) the changes in abdominal presure associated with pregnancy (3) mensituation with its attendant congestion and venous stass and (4) anatomical anomalies such as a long mesosilipinx and enlarged hydrath of alloging in the inght side as compared with the left side is probably due to the greater 'roomness on the right side as compared with the left side is probably due to the greater 'roomness on the right side

The initial symptoms are usually severe pain and shock such as occur when an ovarian cyst is twisted on its pedicle. If undiagnosed the condition may go on to gangene ever prapidly the tube may disease itself or the hermatosalpria may rupture and engage itself or the hermatosalpria may rupture and must when the abdomen is opened the other tube thould be examined as the underlying pathological condition may be bilaterial E L Consert, M D

Smith W S and Denton J A Case of Pyosalpinx Caused by Oxyuris Vermicularis Complicated by Torsion of the Oviduct 4m J Obst & Gynec 1025 xv 205

The patient whose case is reported a nullipara thenly three years old gave a listory of pain in the right lower quadrant of the abdomen which was worsen the standing position than in the sitting position and within a few days became so severe that she was unable to word. Vagnal examination revealed a mass in the right broad ligament and a smaller one on the left sude. The uterus was anteverted and displaced to the left. Cervical and ure thrist preserve megative for georococci.

The patient made a good recovery left the hos pital on the twenty first day and was back at work at the end of another month

Pathological examination of the left oviduct showed that the increase in the size of the tube was due to an extensive inflammatory process in the tubal wall. There was a marked infiltration of the mucosa and submucosa by lymphocytes large mono nuclears foreign body mant cells and a fibroblastic reaction. The puriform material was not pus but a product of anamic necrosis In all of the microscopic preparations thin shells of small round worms were found The shells of the organisms gave a positive test for chitin The worms were believed to be oxvuris vermicularis. In the tissues surrounding the parasites there was a marked foreign body reaction No ova were found. The stools were negative for parasites and ova Some of the lesions were thought at first to be tubercles, but no tubercle bacilly could be discovered and guinea pig moculation was negative

Cases of oyurus vermetulans of the fallopage tubes have been reported by Tschamer Scheder and Marro. The authors regard their case as of interest because of its unusual etology: the complicating torsion of the tube and the bird duration of the subjective symptoms. They state that it unusual for such marked pathological changes to occur in an apparently healthy woman without more pronounced subjective symptoms and with such little disturbance of mensituation.

E L CORNELL, M D

Wolfe S A Primary Bilateral Carcinoma of the Tube im J Obst & Gynec 1928 xv1 374

Wolfe reports a case of bilateral carcinoma of the fallopian tubes in a woman aged fifty say years. On entrance to the hospital the patient complained of a vaginal discharge abdominal pain swelling of the abdomen and loss of weight. The patient is history and her family history were negative. She had had pregnancy labor and puerperuim were normal. Her death was preceded by marked ascites

A complete autopsy was made. The anatomical diagnosis was senile involution of the uterus car enomatous implants bilateral papillary adenocar cinoma of the tubes metastatic carcinoma of right ovary and secondary peritoneal carcinomatosis

Detailed pathological examination showed that the omentum and utients were density covered antenoty and the serous of the uterus had been largely replaced by malganal tisse. The right tube was much enlarged and its lumen filled with superstanding the many sine appillary processes which were carcinomatous. The little was much enlarged the were carcinomatous to the contract of the

E L CORNELL M D

Novak E The Present Status of Ovarian Therapy

J Am M Ass 1928 zc. 607

Ovarian preparations for oral administration are made from the entire ovary from the corpora lutea

alone or from the ovarian residue ie the por tion of the overy remaining after the removal of all corpus luteum tissue. The first two types are used more extensively than the third type. All of them are available in the form of tablets capsules and powders There is no standardization of these preparations nor is there likely to be in their present form as laboratory tests show that they are without any demonstrable biological action Ovarian residue may contain an incidental though always small and uncertain amount of follicle tissue but if it is destred to administer follicle substance by mouth there are far more potent and more precise ways of doing so than by means of ovarian residue placental tissue contains a large amount of follicle hormone and the use of placental extracts seems to have some scientific basis. Follicle substance is difficult to obtain even in the small amounts neces sary for hypodermic administration. Lieue Tange and Faure have shown that while its oral adminis tration is effective even producing cestrus in cas trated animals the amount necessary for oral ad ministration is at least twenty times the hypodermic dose There is considerable reason to believe that the active principle of the ovary is destroyed by the alimentary juices

On the basis of the new knowledge of the potency of follicle bormone manufacturers are striving to produce preparations which will judic chincal results. Some of these preparations are now on the market but in limited amounts and at a rather high cost. They are sold under various names such as

folliculin cestrin cestrogen ferminip menformop and thelykinin All of them are

for hypodermic use only

It is generally agreed that the lipoidal olutions are best. They do not deteriorate so readily as the aqueous extracts and as they are absorbed more slowly their effect is less evanescent.

There is much evidence to indicate that the corpus luteum plays a part in the human cycle which is no less important than that of the follicit A number of investigators have been able to prepare active corpus luteum extracts which produce effects quite different from and in some respects antagonistic to

those produced by the follicle bormone. Hasaw in a recent preliminary continuancation has attacked the problem from a new point of view life found that the pelve ligaments of the gunes pig are relaxed by injections of corpus luteum exact but only when the animal is under or recover use from the influence of the obtain certain biological results the hormones of the follicle and the corpus luteum must be given in proper sequence. Apparently the follicle hormone is necessary, to put the utcrus in proper physiological condition to respond to the corpus luteum hormone.

Among the manifestations which may reasonably be ascribed to hypofunction of the ovary are

i Amenorrhoza (absence of menstruation) hypomenorrhoza (scanty menstruation) and oligomenor rhæa (abnormally infrequent menstruation) de layed puberty and premature menopause ² The vasomotor symptoms of the menopause (erther natural or artificial)

3 Sterility (probably in only a small percentage

of cases)
4 Possibly certain instances of so called pinnary
dysmenorrhera genital hypoplasia obesity rejeated

abortion and menstrual headsches
In the treatment of ovarana hypofunction the
follische hormone has been used but the results have
usually been disappointing because the dosage en
ployed has been inadequate. The hormone should
be administered in large doses preferably at least
100 rat units daily for eight on ten days and the
stopped. If menstruation does not occur in floor or
stopped If menstruation does not occur in floor or

five days the injections may be resumed. Novak believes that neither follicle nor corpus luteum injections alone are as effective as a combination of the two in proper sequence. The best plan is to give eight or ten injections of the follicle hormone folliewed by perhaps six of a corpus luteum.

extract

In the treatment of the characteristic symptoms of the menopause or arian therapy by the oral roots is of much benefit. It should be supplemented bowever by the usual measures of hygnes and procedures to build up the general health. Even more important is reassurance of the patient regarding the significance and temporary nature of the sport.

toms
In sterility organotherapy is still in the engine
stage. The recent work on the relation of the jutiniting light and to the ovary offers far more bay, e fix
the successful treatment of endocrinopathic sterility
than any other development of recent years but as
yet no means of clinically applying the experimental
findings is anonarent.

In primary dysmenorrhou genital hypoplasia obesity repeated abortion and mentrual hed aches in which the etiological rôle of hypogenitalism is far less clearly definable there is interested neepet much benefit from organotherapy. In the present state of our knowledge ovaran through comployed on empire or seem empiring frounds

Lery little is known about this cal syndromes referable to excessive function of the ovary. Their is perhaps only one condition in which the Steentific evidence for such a by perfunction is fairly complete.

se the to-called functional uterms bleding ship occurs most frequently at the menoposal speed is not rare at or shortly after puberty and at other times during perpodictive life. The treatment of this condition would seem to be the injection of corpus luteum extract if an extract of vidoubled potency is made available. By daily injections of a liped containing corpus luteum extract for as eight days before the onset of the abnorance and within the containing of the property of the vidual normal property of the abnorance and within normal property of the containing of the becamed along until the endocrane balance are radjusted. All start N tourse M D Lucio B A Autotransplantation of the Ovary into the Cavity of the Uterus (Contributo all op azione di autotrapianto dell'ovato nella cavità uterna) Clin st i 1928 XV 498

The case reported was that of a woman of thirty one years who had been married for ten years but had never been pregnant. The patient suffered from pamful and prolonged menstruation leucorrhora sacrolumbar pain and headache

Gyneological examination showed blatteral salpings ophoratis At operation the left tube was found to contain about 10 c.cm. of pus. The tube and ovary on that sale were removed. The right ovary was transplanted into the cavity of the uterus but was left connected with the lagaments in order to assure its nutrition. The patient was relieved of symptoms, and her general health has improved.

greatly. The transplanted ovary functions.

Yone of the results can be attributed to the implantation of the ovary into the uterus as they
would have been brought about by the removal inthe diseased adnexa even if the right ovary had
been left in its normal position. The patient has
not become pregnant but Toffier. Estes and others

have reported pregnancies following this operation. The author concludes that the operation is rational and justified as it creates conditions which make pregnancy possible but that it should be done only in selected cases. Audance of Morean M.D.

Dolgopol V B Ectopic Corpora Lutes Am J Obst & Cynec 1928 xv1 218

Dolgopol reports a sense of six cases of ectopic corpora lutes and resives twenty four cases from the Russian and German literature Relatively fees cases have been reported in the English and American literature. The author believes that the anomaly is more common than is supposed and urges all surgeons having occasion to study the ovary at oper attorn to look for it.

Corpora lutea may become partially or totally separated from the ovary. The inhibiting influence of ectopic corpora lutea on menstruation and ovula tion has not been definitely established.

E L CORNELL M D

EXTERNAL GENITALIA

Babcock W W The Vaginal Approach to the Peritoneum St g Chr V 1m 1928 viii 783

Baboock states that oblominal surgeons should be familiar with the indications for and the tech inque of the vaginal approach to the peritoneum as the cut die sac inci ion may be life saving and ligation or clamping of the bleeding tube in ectoric pregrarty is accomplished more quickly and safely spite pelvi accumulations are more sifely drained

and at times unusual abdominal complications are best handled by vaginal section

He describes his method of vaginal enterostomy for postoperative ileus from pelvic perstonitis and concludes from his experience that the cul de sac micision permits exploration of the pelvic perstoneum and drainage of the obstructed loop of bower with immediate relief and little or no shock. Appendicted abscess low in the pelvis or an inflamination of the pelvic perstoned in the person of t

The author describes also his method of vaginal ureterocystostomy for ureteral obstruction close to the bladder wall

ALICE I VIAXWELL M D

Basset A and Guérin P Sarcoma of the Vagina in the Adult (Contribution à létude des sarcomes du vagin chez l'adulte) Gynée et obst 1928 xviii 18

The case reported was that of a woman forty four years of age who came for treatment in Januar, 10 5 because of a tumor in the vagina which she had discovered herself. She had no symptoms except a certain amount of pain on coitus and a feeling of weight at the amus. Operation was performed on Januar, 27, 1035 and was followed by uneventual recover. Histological examination showed the tu mor to be a round cell or lymphoblastic sarroma. The patient was given two radium treatments separated by an interval of eight days—a vaginal application of 105 ome and a rectal application of 465 mc. When she was seen on September 14, 1925 there was no sign of recurrence?

Sarcoma of the vagina has no characteristic symptoms Often the patients do not come for freat ment until ulceration has occurred. Ulceration series to occur carlier in sarcoma of the vagina than in sarcoma in other parts of the body though not so early is in epithelioma. There may be a seriou or sanguinolent discharge or bladder symptoms. The duration of the discharge or bladder symptomic character of the tumor Recurrence is very frequent. As y t. it is impossible to the time of the current of the current than the submoderation of the result in the submoderation of the result in the submoderation of the product of the result in the submoderation of the product of the result in the submoderation of the product of the result in the submoderation is particularly sensitive to radium of the product of the product of the results of the product of the prod

Surgical removal is advasable before the use of radium as it is impossible to determine the histological nature of the tumor without microscopic examination and bonys is more of less dangerous in screens. However, the surgical removal need not serve the surgical removal need not seen to the surgical removal need not succeed to the surgical removal need not succeed to the surgical removal need not effective in preventing recurrence than proeffective in preventing recurrence than prosurgery. Actoracy of Monard III D

OBSTETRICS

LABOR AND ITS COMPLICATIONS

Hofbauer J The Effect of Bile Salts upon the Automatic Contractions of the Uterus and upon the Action of Pituitary Extract During Pregnancy A Possible Explanation for the Cause of Labor Am J Obst & Grace 1028

In an attempt to explain the causation of the onset of labor. Hofbauer made an experimental study using bile salts on portions of excised uteri suspended in Locke s solution

It has been known for some time that in preg nancy there is a steady increase of the bile salts in the circulation. In the author's experiments it was found that the addition of small quantities of sodium glycocholate to portions of the strips of muscle sus pended in Locke's solution suppressed the sponta neous uterine contractions. The relaxation of the uterine tone could not be neutralized by the addition of small doses of pituitrin but large doses of pituitary extract produced strong utenne contractions equal to the contractions occurring during labor

Hofbruer believes it logical to assume that the activity of the pituitary body may be one of the factors responsible for the onset of labor

E L CORNELL M D

CARL H DAVIS M D

Lynch F W Anæsthesia in Obstetrics Cal forma & Best Med 1928 xxiv 173

The author believes that the metabolic changes normally present in pregnancy make the patient a poorer anæsthetic risk than she would be in the non

pregnant state

tions

Abdominal complications demanding surgical in terference during pregnancy can be operated upon without much abdominal relaxation. In a great per centage of cases local anæsthesia is used. If neces sary this may be supplemented with nitrous oxide and oxygen or ethylene and oxygen

Ether should be given only when it is needed to secure muscular relaxation as in versions and should be avoided if possible in casarean sections. Mor

phine should not be given before casarean section Nitrous oxide with oxygen has been favored by the author for analgesia in the second stage and for anasthesia in casarean section and forceps extrac

Mathieu A and Schauffler C C The Rigid and Stenosed Cervix in the First Stage of Labor Am J Obst & Cynec 1928 IN 390

In a study of the rigid and stenosed cervix in the first stage of labor the authors were unable to demonstrate the existence of a band of continuous circular fibers of the sphincteric type They are of the opinion that the caliber of the cervical caral is maintained passively by the anatomical conforma tion of the organ. They state that so-called pasmodic cervical contraction occurring during labor is frequently psychic as is shown by other symptoms of a similar nature and the patient's mental makeup Among pathologico-anatomical conditions which may be responsible for rigidity and stenoss of the cervix are lues displacement of the os adhe sions and overlapping of the cervical lips

In the diagnosis fibrosis of the cervix must be kept in mind The condition must not be mistaken for the patient's reaction to the early stages of labor or for active resistance to descent due to the part

caused by the pressure on the cervix If fibrosis is absent watchful expectancy together

with the administration of sedatives is indicated Manual and instrumental dilatation and the use of weighted bags are condemned. For certain cases the authors recommend cervical incisions or varmal or abdominal casarean section E L Cornell MD

Balley II The Long Labor Am J Obst & Gyn C 1028 XVI 321

Bailes states that long labor with its accompany ing acidosis and shock is apt to be a cause of sudden death So called anaesthetic deaths may possibly be explained on this basis When labor is prolonged the acidosis increases hourly with resultant lower ing of the carbon dioxide in the blood and coincident lowering of the blood pressure Patients who show signs of acidosis such as bright redness of the hip dryness of the skin and marked exhaustion should be treated for this condition before operation is attempted Morphine in doses of 34 gr telieves the acidosis by the rest it affords and thereby raids the carbon dioude combining power of the blood Morphine should not be used in long labors for the purpose of allowing the patient to rest and the return to a stronger labor afterward but merely to prepare her for an operative delivery

If the labor lasts longer than twelve hours the patient should have regular feedings of high ralons and easily assimilated food Glucose may be given intravenously When the systolic blood pressure is under 85 operative intervention should be pot poned until the reading is brought to 100 This may be accomplished by giving 350 cem of gum glucose intravenously at the rate of about 4 ccm per minute and at a temperature of 104 degrees !

Of all forms of delayed labor the one most dil ficult to treat is that due to so called primary mertia and rigidity of the cervix. Some obstetn cians believe that the Beck type of casarean ection is indicated in these cases but the loss of immunity due to increased exhaustion and acidosis with subsequent entrance of infection after rupture of the membranes and repeated vaginal examinations are contraindications. Probably it is better to insert a bag and pack the vigina with wet gauze deliver ing the patient with forceps when dilatation is

complete
The obstetream is directly responsible for the maternal deaths which occur in the conduct of labor When marked acidosis is present together with a low blood pressure operative intervention should not be undertaken until the patient has been rendered a good risk for obstetrical surgery. The precaution may lead to a decrease in the number of sudden and unexplainable deaths occurring at the end of long labors. All Decreases the contract of the death of the properties of the contract of the contract

Harris J W and Brown J H The Bacterial Content of the Uterus at Cæsarean Section (m J Ob 1 & Ginet 1028 191 332

In an article published in February 19 7 the authors reported the clinical details of a bacterio logical study of fifty utern at casarean section. In twenty eight cases the cultures were stellie wherein in twenty two bacteria of various kinds were found In this article the twenty two infected cases are reviewed in detail.

In order to insure freedom from contamination by the vaginal secretion all of the cultures were taken through the uterine incision. As soon as the child was delivered but before the hands or instruments were introduced into the uterus a sterile cotton covered swab was passed through the uterine incision and rubbed over the lower uterine segment care being taken to prevent contact with any portion of the uterus except that from which the culture was desired As soon as possible thereafter smears were made from the swab and then an inoculation was made into anaerobic and aerobic human blood agar plates anaerobic and aerobic and dextrose-acid agar plates cooked meat sealed with vaseline anaerobic and aerobic human serum bouillon and aerobic lactose fermented bosillon containing bromcresol purple as an indicator. In no instance did the pri mary smears show bacteria which could not be grown and identified on culture. In all except one of the refected cases the puerperium was febrile but all of the patients recovered. In ten cases the in cisions healed poorly From eight of these cases either actinomyces pseudonecrophorus or beta hamolytic strentococci were i olated. One case in which the wound healed poorly yielded a pure cul ture of an anaerobic streptococcus of the gamma type which actively fermented all the test substances except mannite. In three cases clostridium welchis was found but there was no gross evidence of gas bacillus infection. No obvious relation was noted between the course of the puerperium and the pres ence of diphtheroid bacilli in the uterus

To sum up the cultures showed staphylococcus albus in nine cases staphylococcus aureus in two cases years in two cases clostridium welchi in three cases Doederlein's bacillus in one case acti

nomyces pseudonecrophorus in three cases diph theroids in twelve cases and streptococci in eighteen cases E L CORNELL M D

Gordon C A A Survey of Caesarean Section in the Borough of Brooklyn City of New York im J Obst & Gynec 1928 xv1 307

Gordon collected a series of 1 805 casarean sections from the statistics of thirty four hospitals over the period of five years from 1921 to 1926. In 1941 cases the indication for the operation was contracted pelvis in 210 cases eclampola and other toazemias of pregnancy in 117 cases antepartum hagmorthage and in 344 cases various other causes

In the first group the fetal mortality was 3 8 per cent and the maternal mortality 8 per cent In the second group the fetal mortality and also the maternal mortality was 6 per cent. In the third group, which included 98 cases of placenta pravia and 10 cases of accidental hiemorrhage there were 30 fetal deaths a mortality of 25 per cent and 7 maternal deaths a mortality of 6 per cent.

In the whole series of cases 21 crearean hysterec tomies were performed with 3 material deaths a mortiality of 14 per cent. If 4 cases of rupture of the uterus with 2 deaths are deducted the material mortiality of creaseran hysterectomy was 6 per cent. The classical operation was done in 472 cases—273 with and 190 cases without previous vaginal examination. In the first group there were the deaths and in the second group 27 deaths. The lower was ment operation was done in 129 case—6 with most open the control of the control o

E L CORNELL M D

PUERPERIUM AND ITS COMPLICATIONS

Harris J W and Brown J II The Bacterial Content of the Vagina and Uterus on the Fifth Day of the Normal Puerperium Bull Johns Hopkins Hosp Balt 1928 xlin 190

The fact that streptologic were present in the uters of patients suffering from very mild symptoms of puerperal sepsis suggested research to determine if it is possible for streptococci to be present in the puerperal uterus without giving rise to any clim cal manifestations of infection In thirty normal obstetrical cases intra uterine cultures were taken by means of Little's tube together with varinal cultures on the fifth day after delivery The utmost precision of method was used Bacteria were found in twenty of the thirty cultures from the uterus but streptococci were present in no case. Of the thirty cultures from the vagina twenty two showed streptococci but in no instance were they of the aerobic bets hemolytic variety which is the etiolog ical factor in the majority of fatal cases of puerperal ar fection

While bacteria of a sort not present in the fundus were abundant in the vagina no variety was found in the fundus which was not represented in the vag nail fora. From this st must be assumed that there is an upward extension of the bacteria from the vagina to the uterns doubless through the capil lary lavers of fluid extending from the vulva to the uternse cavity. It is probable that whatever organisms are present in the vagina at labor ascend into the uterne cavity but are rapidly, killed off by the cavity of the cavity but are rapidly killed off by the cavity of the cavity but are supported to the cavity but are study the numbers one clude the same from the study the outpers one clude the cavity until the fifth day of the normal puerpenum without giving rise to cluncal manifestations of infects.

GOODRICH C SCHAUFFLER M D

Goodall J R and Wiseman M Cervical Infections in the Puerperium im J Obil & Gynec 1928 xvi 330

The authors state that the high incidence of morbidity the frequency of submivalution of the uterus and the common occurrence of thombophie bits especially in multiparar are probably due to an attenuated infection which the vulvar asoptic technique cannot reach. The frequency with which primary infection in the cervix early in the puer perium can be demonstrated seems to indicate that in many cases of mild morbidity the underlying cause is chronic cervicities. E. L. Connext, M. E. L. Connext,

Watson B P An Outbreak of Puerperal Sepsis in New York City Am J Obst & Gyncc 19 8 191 157

Watson reports an epidemic of puerpeas sepass occurring in the Storae Bioppila for Women Aces Y. C. Cuty in January and February; it women Aces that the Storae Bioppila of the Storae Storae Storae delivered Of these 25 (15 per cent) developed a streptococcus infection. There were question and continuous delivered of the Storae St

In it cases delivery was normal In 6 forepower used and in a geometric section was performed. In a case in which there were tunns wer soon was necessary In 7 cases no signal examinations or vagnal matipulation was done In all of the Chich the reservation of the control of the

In a tholough investigation or the operating to cover the total countries and a attending surgeons had hemolytic streptocorci in the nose and throat and a mires had tomistist One numee decloped a streptocorcus pertionitis but when she was operated upon later no demosstrable primary focus of infection could be found. One intern on the service was also a streptocorcus carrier and was temporarily do. a streptocorcus carrier and was temporarily dis

The infected cases were isolated and the delivery rooms were thoroughly cleaned and some of them were closed As cases of puerperal infector or truned to develop the hospital was closed to all patients for a period of ten days from Februari is to February 24 and during that time the open is frooms were thoroughly fumingated and renaited

The author was unable to determine from the data available whether the carriers brought the infection into the hospital or picked up the organic from infected patients. The latter may have been considered to the contract of photopy per contract of the organization in the vagina of nearly all infected of the organization in the vagina of nearly all infected or the contract of the organization in the vagina of nearly all infected or the contract of the organization of the art of the contract of the organization of the orga

patients proved that this was the common portal. The particular streptococcus in this sense of infections was a very virulent one. With reacepton death resulted in every case with a positive blood culture. The late appearance of streptococcu in the blood of most of the patients and the postmortem findings indicated a lymphatic dissemination.

In the treatment the author used antistreptors can serum in large doses and quante to hyportholoride serum alone or serum and blood traile sions. Some of the patients were benefited by trepeted small blood transfusions. In the mod virulent cases no improvement resulted from an treatment. L L CoxXXII M D

NEWBORN

Flagg P J The Treatment of Asphysia in the Newborn Preliminary Report of the Practical Application of Modern Scientific Methods J im W ts. 1928 xc. 788

The author emphasizes that the obsteturas should be thoroughly familiar with the anatomy of the upper air passages as it appears air hand without its reflexes. Both in infants and in adults the problem of scientific artificial respiration depends upon the case with which the farying may be exposed and intuisited.

The article contains five illustrations of apparatus used in the treatment of asph, xia of the newborn The apparatus which is used by the author has the advantage that it can be operated by one person.

CELL DAYS M.D.

MISCELLANEOUS

Crew F A E The Biological Aspect of the Falling Birth Rate Brit V J 1928 U 477 rot the Fall Roberts W J The Economic Aspect of the Fall Ing Birth Rate Brit V J 1928 U 478 Horder Sir T The Medical Aspect of the Falling Birth Rate Brit V J 1928 U 483 Barrett Lady Inducations from Statistics on the

Falling Birth Rate Bril M J 1928 11 485 CREW says that to the biologist there is nothing

remarkable and necessarily ominous in the past and present decline of the birth rate. It is the sign only of the approaching end of a population growth cycle not the end of a people or a culture. The law of the growth cycle postulates that suthn one and the growth cycle postulates that suthn one and the same cycle and an an especially limited area growth the fairst half of the cycle starts slowly, but the actual marement per unit of time increases steadily until the modernment per unit of time becomes stead with the modernment per unit of time becomes stead by smaller until the end of the cycle. There are two methods by which population reduction or descending the cycle steady of the cycle steady in the cycle steady like space. The first is the catastrophe method illustrated by epidemics war famme etcouring as the result of over population and the second a fall of fecundity and fertility with increas any density of population.

It appears that conditions incident to overcrowd ing depress fecundity. In the case of human fecundity this passive response to environmental discomfort can be replaced by a deliberate and conscious con trol of the reproductive rate. Therefore the ques tion arises as to whether the fall in the birth rate is due in the main to the spread of a deliberate and conscious limitation of fertility The conclusion that methods of birth control attain the end desired by those who employ them is inherently probable (mid dle and upper social classes) It is very doubtful however if birth control has affected the population growth cycle-the crude birth rate The fall in the birth rate has been too gentle. It has proceeded with evolutionary steadiness and it has been universal Accordingly it seems that the fall is not the result of local disturbance but the expression of general bio logical factors The birth rate is falling now because this is the end of a population growth cycle

Though yet in its infancy the scene of group bology has made important contributions regarding such factors affecting the rate of population as (i) the proportion of multiple birth stocks present (s) the frequency of opportunities for effective fer intuition as and cated to ir requirely of ovulation and length of period of fertility and (3) living conditions and other factors affecting happiness. I ethaje the and other factors affecting happiness of entage the analysis of the contribution of the contr

Social advancement causes a decrease in the rate of reproduction because those who advance socially are presented with a greater variety of modes of self supersion and self indigence II a large section of self-resistion and in the socially unsuccessful but the self-resistion and in the self-resistion and the self-resistion will be higher than the rate of the community as a whole and the trend will obviously substitute. Crew offers no panaces but states by undestrable. Crew offers no panaces but states be undestrable. Crew offers no panaces but states have one from Nature and the self-resistion of security and the self-resisting self-resisting self-resisting self-resisting self-resisting self-resistant self-resista

ROBERTS says that the science of economics does not yet offer a generally adopted doctrine of popula

tion which can be applied with confidence to actual

Apprehension in regard to the diminishing birth rate should perhaps be allayed by the concomitant decrease in the death rate. The decline in the birth rate appears to be differential in the sense that the restriction of births is confined chiefly to the middle and upper classes especially large families of undesired children being found mainly among the poor The part played by birth control in this dif ferential birth rate is probably not inconsiderable as birth control is practiced chiefly by the higher social classes Alarm is felt in some quarters because of the failure of the best elements of the community to reproduce themselves Regarding the urging of such considerations as motivating principles upon the The average individual masses the author says is not apt. I suspect to pass immediately from his general preferences for the social and political future to any shouldering of a share-which to him per sonally is heavy but may turn out to be insignificant in the mass-of the costs of bringing about such a result accordance with his other inclinations and interests persistent group pressure and example and like causes may sometimes come to the aid of such ideal and remote aspirations

It is not surprising to find that the propagation of children can be urged as a duty toward a social group or members of that group While nations would prefer preponderance of their own types as would also religious and political bodies vet it is hardly possible for the individual or the family to bring into play a point of view sufficiently broad to encompass the relative values involved. It is the duty of the economist to take account of these political and social divisions and to seek to discover how they affect the conditions of the problem Practically we may feel ourselves urged to promote measures which tend toward family coherence under better conditions than those of the past or present example the advantages to the parents of child labor are not the motives most favorable to the rearing of large families yet they formerly furnished a certain economic justification

The economist would like to inquire into the effects on conduct and habit generally of a widespread dissociation of sexual gratification without the responsibility of parenthood. He is optimistic to the extent that he believes that men should know and choose rather than behave as blind victims of impulse and despair. His disagreement with the older pessimistic theories is evident from such state The obstacles to the growth of ments as this population are not those lying in the niggardliness with which \ature responds to human labor and co operation and science and good will I do not think that our own island to say nothing of what has been called our little planet is overcrowded or that our difficulties are due to any approximation to such a calamity Our troubles are due not to the efforts of free and equal people to min a livelihood but to causes which I may distinguish as political

that is to say habits and institutions whose origin and purpose is mastery and privilege and monopoly That justice should prevail over the whole economic community is seen to be the main condition on which the continuous unfolding of productive capacity

depends HORDER states that the question of population seems to he largely outside the doctor's sphere Dividing the question into its component elementsnatality mortality and migration-he finds little for the physician to assume in regard to the first and last of the three In regard to mortality the physician's effort to prolong life is but a feeble con tribution In the question of saving life however and in the matter of improving health and thus increasing fertility the physician should be a definite factor. If he is to enter the field on the side of the larger issues he should be taught a good many things not now included in his curriculum and his thoughts should be early directed to the vital general questions of the regulation of birth A definite clear cut program should be envisaged for the physician s advocacy The study of contraception would be only a minor factor in these broad doctrines but even in this restricted department are found striking inadequacies. Here at least is a subject deserving of inquiry concerning which the doctor's oppor tunities for research and observation are abundant and his findings paramount

LADY BARRETT assigns to the physician a position of major influence on the question of population She is of the opinion that the subject should and can be taught in medical schools. Regarding the influence of contraceptives and especially their in

fluence in the upper classes she points out that there have always been variations in fertility in various classes All factors including contraception tend to diminish the upper middle and textile classes only whereas the classes approaching desti-

tution are unnaturally prolific

The author discusses general factors which affect the crude birth rate and calls attention to the fact that the artificiality of sex relationship dependent upon present social and industrial conditions gives a definite impetus to this unfavorable trend states that obedience to natural laws and the restric tion of intercourse to the periods of natural desire of

both partners would answer wisely and well the requirement for an intelligent limitation of popula tion The healthy and virile would procreate about dantly whereas the sick and poorly compared would not Such ideal restriction would seem practically unobtainable but physicians should advocate such a

program In the authors opinion the least objectionable and most efficacious of the artificial methods of contracention are the use of the sheath and the intoduction of medicated pessaries but all methods are grossly unsatisfactory

GOODRICH C SCHAUFFLER MD

Mitchell R The Prevention of Maternal Mortal ity in Manitoba Canadia; M Ass J 1928 nr. 292

In a recent survey MacMurchy found that in the period from July 1 1925 to July 1 1926 the mater nal mortality rate in Canada as a whole was 64 per I 000 live births and in the Province of Vanitoba 7 7 per 1 000 live births In Canada as a whole the most common cause of maternal death was sepsis This was responsible for 27 per cent of the fatalities Next in decreasing order of frequency were harnor rhage toxemia and dystocia

The author finds that in Manitoba puerpera hæmorrhage claims by far the greatest number of victims He therefore urges more careful management of the third stage of labor He states that cases of placenta prævia are often neglected being brought into the hospitals only as emergencies He believes that operative intervention is too fre

quently performed and emphasizes that forcept should not be applied unless there are well defined indications for their use

Antenatal care has reduced puerperal albuminum and convulsions to the minimum

The measures recommended by Mitchell for the reduction of maternal mortality are (r) strict en forcement of registration of births deaths and cases of sepsi (2) an investigation of every maternal death and of epidemics of puerperal sepsis in hos pitals by the Department of Health and (3) an increase in the number of public health nurses to give better prenatal care and to educate expectant CARL H DAVIS M D mothers

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Caylor II D Suprarenal Renal Heterotopia Re port of a Case J Usol 1928 xx 197

Suprarenal recal heterotopia is the developmental nuisson of contical and medulary suprarenal stasse beneath the capsule of the kidney. All or only a part of the suprarenal gland may be beneath the renal capsule. The condition is frequently blateral it occurs more commonly in males than in females and is usually associated with a thymicolymphatic constitution. It is of surgical importance as it can not be recognized before operation for the control of the condition of the properties of the condition of the condition of the properties of the condition of the condition of the properties of the condition of the condits of the condition of the condition of the condition of the cond

Kulneys to be removed should be carefully scru tunzed for this anomaly during and immediately after operation because knowledge of the defect may prevent removal of the suprarenal gland during nephrectomy or if its removal is mevitable (as in the case reported by the author) the epinephrin msufficiency which may develop will be anticipated

Hertz J The Effects and Results of Suprarenalec tomy in Gangrene of the Extremities (Effets et résultats de la surrénalectome dans la gangrène des extrémités) Bull et mêm Soc nat de chir 1928 hv 054

This is a report of seven suprarenalectomes five performed for thombo anguist obliterans one for semble gangrene and one for symbilitie endarteritis. One patient who was treated for thrombo anguist obliterans or Buergers disease remained well for twenty one counts and another required amputation after two months. The three others suffered relapses after two and three months. The symbilitie endarteritis mustaken for Buerger's disease was re activated by the operation. The patient with sende

gangrene was relieved of pain for eight days. In all

of the cases of Buerger's disease the operation

relieved the pain immediately although only tem

The author recommends supracenalecto uy for cases of sphillute endartents and senile gangeree because he believes that it releves the atternal spans and thereby males possible a more conservative amputation. If it is experience indicates that appracenalectomy has the same immediate effect as officially publication of from their publication of from their, produced the created and as Lerachford the exclusion and renal pleusest and as Lerachford embedding the contract of the c

Point

Hertz concludes that periarterial sympathectomy should be given a trial before suprarenalectomy is attempted as the effects of the two operations seem to be identical

ALBERT F DE GROAT VI D

Harris A Traumatic Rupture of the Left Kidney
Case Report J Urol 1928 xx 193

Harms reports the case of a man forty four years of age who while standing on a crowded subway platform was suddenly pushed against an iron post sustaining an injury to his left side. The injury was followed by harmaturia for ten days pain in the sade and back and a feeling of weakness. After the patient had been kept in bed for twelve days the pain and tenderness were relieved. Twenty three days after the injury the urine was moderately cloudy and showed a trace of blood and pus. The findings of a general examination were negative except for moderate tenderness on deep pressure over the left hidney. There was no palpable enlargement of either kidney.

Cystoscopic examination showed the bladder to be normal both ureteral onfices were normal and were cathetenized with ease. On the left side a distinct hydronephrotic drop was noted. The phthalien test on both sides the Wassermann test and blood chemistry were negative. The specimen of urine from the left kindrey showed blood and pus cells. The contract of the cont

\ ray examination showed the right kidney out inco obscured by gas in the bowel The left kidney was definitely enlarged but smoothly outlined and normal in position. The upper pole was particularly enlarged. The uneteral regions were negative. Pice lography on the left sude showed the kidney pelvis to be normal except that the upper callyces had been obliterated and replaced by a large irregularly bour glass shaped pouch. In its upper portion has pouch districted and the present of the control of the present of the control of the control of the present of the control of the control of the present of the control of the present pelvis. In the opinion of Bell thus accessors prouch was anter nor to the upper pelvis. In the opinion of Bell thus accessors prouch was caused by the trauman.

When the pitient was last examined he was in excellent health and his urine was completely nega

While the author recognizes the great recuperative and reprintive power of the kidney he believes that an some cases mechanical defects may be followed after some time by infection or stone formation resulting ultimately in destruction of the organ. He draws the following conclusions

tive

1 A ureteropy elographic study should be made in every case of renal trauma after the subsidence of the acute symptoms. The time to investigate depends upon the symptoms and the judgment of the surreou.

2 The follow up should be continued for a long period in order to determine the incidence of second ary infection and stone formation. Chronic infection without obstruction may continue for long periods without symptoms sufficient to cause the patient to consult a physician. In the control of infection catheterization and lavase of the kidney may be of

3 The reparative power of the kidney is remarkable

4 Open operation is indicated only in the exceptional extreme case of renal injury with uncontrol lable hamorrhage. Infection following extravasation of urine or the formation of a hamatoma may require drainage.

5 It is possible that an infected pouch sinus or sac not relieved by lavage might be removed by open operation with conservation of the kidney

6 An accessory pouch seen in the pyelogram must be differentiated from a solitary cyst of the kidney CLAUDE D HOLLES M D

Babcock W W The Tolerance of the kidney of Trauma and Infection Surg Clin N Am., 1923 VIII 791

Babook reports two cases of revurrent nephro lithiasis. In the first case that of a woman fifty me years old a large calculus was remove from the right kidney and dramage of the left kidney was abowed stones in both kidneys. Both kidneys here more present to be sufficient to the present the pr

The second case was that of a woman of twenty say vears. When the patient was eighteen years old stones were removed from the right kidney and when he was twenty years old stones were removed from the left kidney. Small abscesses formed in both kidneys and permanent tube drainage was in state and the same permanent tube drainage was in state and the same removed from the left kidney and ultimately the left kidney was removed. Under treatment the night nephrostomy wound gradually healed

The author emphasizes three factors that favor the re formation of calcult (1) a blood clot remain ing in the bidney upon which a calcarcous deposit occurs (2) dulatation of the pelvis or calyces and (3) particles of stone left at operation. He states that stones are best removed through the pelvis the kidney MARIGER I BLETER MD Knipfer A The Roentgen Picture of Horsesbee kidney (La sindrome radiolomica del rene a firm di cavallo) Radiol med 1928 xv 654

The author reports a case of horsehe kidy which he was able to diagnose by simple roeting examination without prelography. The loser pile of the kidneys were pointed and extended obleged toward the spinal column. The lateral outine of the commal kidneys sower so obligate. The two later are constant to the control of the

A shadow on the right side higher up than the flower pole was found to be due to the furrow where the bridge and the right kidney joined. Frequestly the bridge does not connect with the two idarys at the same level and the groove where it yous them can

be seen in the roentgen picture

As the direction of the horseshor kidney is down ward anternorly and upward posternorly the tele may be inchned a little in the ventrodorsal projection. A roentgenogram should be taken also at dorsal and ventral decubits. Sometimes the shape of the kidney is shown better in central decubits.

Schillings M. Horseshoe Kidney (Le ren en ler i cheval) 1928 Louvain Société Scientifique de Bruxelles

The author reviews the cases of horseshee blood reported in the literature up to date included a real of his own. The reference was a real of his own. The reference and the result of the rest of the result of the result of the result of the result of the

Davis J E The Surgical Pathology of Malformations in the Kidneys and Ureters J Ltd

19 8 zz, 255

The classification of renal abnormalities in general use today in which these anomalies are grouped according to position number and form, was signested by Kuester in 1806

Absorbablise of parties (Systems) As a resist of inequality of growth the kidner may be best than normal and the suprarenal body displaced to such cases in which in nephre-tomy. He was to two such cases in which in nephre-tomy. He was to see that the suprarenal on the kidney pelvas the state as removed with a fatal termination are set to the suprarenal on the kidney pelvas should always be borne in much when examination reveals high po-

tion of the kidney together with perinephnis.

In large fetuses infants and young children it is not at all uncommon to find the kidneys in a low position or one kidney loner than the other.

The most common positions of abnormally placed kidneys are the bifurcation of the aorta the sacra

promontory over the sacro iliac joint in the iliac fossa and in the hollow of the sacrum Abnormally formed kidneys are quite frequently misplaced whether they are fused or separate A floating kid ney may constitute an obstetrical complication The right kidney is more apt to be found in an ab normal position than the left kidney

Abnormalities of number The presence of more than two kidneys is the rarest of all kidney malfor mations Absence of both kidneys is usually found in fetal monsters Maulon however saw a fourteen year old girl without Lidneys ureters or bladder In this case the urachus was very large and long the umbilical vein was larger than that of an adult and since birth a urinous fluid had been discharged from the umbilious In aplasia of the Lidney the ureter of the same side is also missing In hypoplasia there may be a ureteral formation with a small mass mounted on its upper end. Absence of one kidney may be congenital the result of the blighting of a bud on one side or due to the destruction of one kilney by disease as a rule a disease causing

ureteral obstruction and pressure thnormulaties of form Most malformations of the kidges begin in the early development of the ureteral bud and its surrounding metanephrogenetic cells The usual cause of horseshoe kidneys which con stitute 25 per cent of renal malformations is a change in form involving both buds. This fusion deformity is important because of the irregularity of the blood supply and the abnormal number and position of the ureters which may be responsible for abnormality of dramage. Anomalies of the ureter and pelvis include variations from the normal in the number of the ureters or pelves the type of fusion and congenital absence atrophy or stricture of the ureter The most common anomaly in this group is complete or partial duplication of the ureter

The most important congenital renal condition is the congenital polycystic kidney. This is charactenzed by the formation of numerous and diffusely distributed retention cysts which are usually visible to the naked eye. The anomaly is often associated with other developmental stigmata It may be found at any age and is associated with cysts else where in the body most frequently in the liver The condition passes through three stages The first is the latent stage which may continue for a short time or for many years. The second is characterized by subjective symptoms and objective signs chiefly a dragging down pain and hæmaturia and may con tique for a few months or a few years The third is characterized by uramic symptoms and may ex ten l over a few weeks or a few months. The subjective symptoms from congenital cystic kidney are mainly renal insufficiency hæmaturia pain and in The objective signs are a tumor mass in one or both Li liney areas increased blood pressure changes in the urine similar to those of interstitial nephritis and a positive cystoscopic picture and histor. The pyelogram shows (1) flattening and obliteration of the major calyces (2) retraction and

broadening of the various major calvees (3) elonga tion or rounding of the true pelvis and (4) displace ment or obliteration of the pelvis CLAUDE D HOLMES M D

Prelonephritis and Urethral Obstruc Potter C tion 111 I Sure 1028 v 286

Potter reports the case of a woman fifty five years of age who had had chronic ovelitis for about ten years Every catheterized specimen during this time showed pus Through self neglect the patient passed through many acute exacerbations of urinary tract infection diagnosed variously as malaria chills and fever influenza stomach trouble bladder trouble and hysteria. She usually changed her physician as soon as he advised a complete urological examination

The treatment given by the author consisted in the removal of foci of infection irrigation of the kidney pelves ureteral catheter drainage pro longed rest in bed the use of urinary antiseptics and colon bacillus mixed vaccine intravenous medica tion and a blood transfusion to overcome anymia and build up the resistance. After a month in the hospital the patient was allowed to go home but treatment was continued because the urine was still heavily loaded with pus and colon bacilli. Shortly after her discharge she had an attack of acute name over the right kidney accompanied by a chill lasting thirty minutes nausea vomiting and a temperature of 104 degrees I

At operation performed first on the right side and ten days later on the left side the kidneys were found to be white twice the normal size and firmly bound down by adhesions. The ureters were patent

Decapsulation of both kidness was done. A small incision was made in the pelvis after it had been wiped free from fat A straight Kelly forceps was then bored through the kidney substance at Broedel s line the location of the silent vascular area until the point protruded into the pelvis. Along the tract made by the forceps a small rubber tube was pulled through the Lidney The fenestrated end was left free in the pelvis. The tube was fixed in place by two sutures introduced through the Lidney cortex. The wound was closed in layers about the tube and one rubber tissue drain

Urine drained through the tube freely instillations of 10 per cent argyrol were introduced through the tube into the kidney pelvis. The bladder urme showed a large amount of argyrol for twenty four hours after each instillation. The tube was left in place for eighteen days. The patient showed marked continuous improvement and urinalyses over a period of a year were practically negative Constination was controlled by agar and mineral oil

Greenberg used a similar drainage procedure in the case of a man forty two years of age who had pain in the right lumbar region and complete anural for twelve hours The left kidney and both testicles had been removed for tuberculosis eight years pre viously Cystoscopic examination revealed a stric ture in the middle of the right ureter which could not be passed by a cathleter. After the insertion of a the into the Lidney pelves through the trater made above forces pushed through the later, at Broedel, him unnary drainage occurred through and around the tube and improvement in the condition begans at the tube and improvement in the condition begans and the tube and improvement in the condition begans after the tremunder of his life. He lived about two trans the remunder of his life. He lived about two largest after the operation and died from intestinal obstruction due to extensive intestinal tuberculous. The author draws the following conclusions:

I Chrome pyehits can be successfully treated by direct surgical drainage of the kidney pelvis and the instillation of an antiseptic solution through a tube

introduced through a tract bored in the least vascular area of the kidney

2 Chronic pyelonephtitis can be successfully treated by the same procedure plus decapsulation after the manner of Edebohl

3 Even when it seems that the entire unnary tract except a part of one kidney is incapcitated life can be prolonged and the patient at least tem poranly restored to useful work by direct surgical drainage of the renal pelvis

J COWIN KIREPATRICE M D

Gutierrez R Non Surgical Renal Tuberculosis 1m J Surg 1928 v 99

Non surgical renal tubertuloss is one of the most common and serious of kindey infections. The diagnosis is based on the presence of koch bacilli in catheterized urine a positive utographic examination and a decrease in renal function. In from 80 to per cent of the cases the condition is at first unitateral. Early diagnosis should be followed by mephrectiony. In most cases the infection is carried by the blood stream but in some it reaches the kind may be way of the lymphatrics or the bladder. The property of the light of the control of subjective symptoms or apparent lessens in the unitary organs. In one case reported by the subre a secondary infection resulted from obstruction at the ureteroped juncture.

Bilateral renal tuberculosis is not frequent and is always associated with pathological lesions of one or more of the other genito urinary organs. In advanced pulmonary tuberculosis the urinary bladder

is always involved

In reporting ninety three cases of bilateral renal tuberculosis Legueu stated that after the removal of the kidney with the poorest function the bladder symptoms often subside and the lesion of the remaining kidney is arrested or cured. In early cases the involved kidney should be removed at once

The author says that the secretion of urea in normal quantity is a safe indication of a sufficient amount of kidney tissue capable of functioning. The Mayo Clinic ascribes more importance to the phthalein test. The determination of the urea secretion and the phthalein test should be combined with pyelography and guinea pig noculation.

There are certain cases of renal tuberculosis in which surgery should not be applied the best results

being obtained from combined medical and unlogical treatment. These are cases in the advance stage with equal involvement of both sites and a marked decrease in renal function. Not hing should be removed until the chincal data functional test and py elographic studies indicate its removal postively.

Tubercle bacillums does not always mean their culcoss of the kindrey. It may be due to a ford tuberculosus et les kindrey. It may be due to a ford tuberculosus elsewhere. Partial nephretoms was be indicated. Certain cases of pedorephitis with hydronephrosus and stricture or lank of the with should be treated cystescopicilly. When a gree lesson is evident in the pytelogenilly when a gree lesson is evident in the pytelogenilly when the mean should be propertionally indicated the treatment of the propertional function the treatment should be prophretomy.

BENJAMIN F ROLLER M.D.

Hyman A Renal Neoplasms Am J Surg 198

of ninety nine cases of renal neoplasms reviewd by the author 65 per cent were cases of hyper nephroma Surty three of the patients were between

forty and fifty years of age and seventy two of them were males

The mortality of renal tumors is between 70 and 80 per cent. The symphoms are hematurn pain tumor backache loss of weight umary difficulty gastro intestand disturbances and fever in fifteen of the cases reviewed mediatases were present with the patient was first seen. The secondary methods to the condition are codematicated to the condition are codematicated to the condition of the condition are codematicated to the condition of the condition of the condition are codematically appeared to the condition of the c

Operation is contin undexted when the tumor is being and immovable and adherent to the space and disphagem or extends into the year and submitted and adherent of the space and safet operations seem to be of no avail. The deese usily talks in three years to peration is not performed. The usual surgical treatment is lumbar replace from To guard against mentatians the renal years and the properties of the pr

Papin M. Ligation of Both Ureters Obstruction Relieved Gure (Ligature operators det dest uretères d'sob truct on guérison). Bill et mém Set moi de le r. 1923 luy 1056

Clamping or ligating a ureter even for a short time usually leads to necrost and structure but the author reports a case in which both ureters were ligated for fifty one hours without senous results

Following a total hysterectomy for cancer the patient failed to urmate Medical treatment in stituted on the supposition that the anura was reflex had no effect. After two days the author was consulted and in the course of a cystoscopy cather

terization revealed an obstruction of each ureter a few centimeters above the meatus

At laparotomy performed immediately under somal analgesia the ureters were found to be in cluded in the ligature of the uterine arteries After removal of the ligatures indwelling sounds were placed in the ureters through small incisions made proximal to the obstruction

Urine entered the bladder within a few hours following the operation and after an initial polyuria the output became stabilized on the fifth day at 1 500 c cm Except for a mild left pyelitis which lasted several months recovery was uneventful Sounds passed from time to time showed no stenosis

of the ureters Throughout both interventions the patient's con-

dition remained good. There were no symptoms of nstrogen retention or signs of hydronephrosis Four months later the findings of urmary analysis and the Ambard constant were normal

ALBERT T DE GROAT M D

Fullerton A The Diagnosis of Ureteral Calculi Brit M J 1928 11 327

The author presents an account of his experience in the diagnosis of fifty proved cases of ureteral calculi Eighty per cent of the calculi were made up chiefly of calcium oxalate. In the remainder except in one case phosphates predominated over unc acid The sharp projections on most calculi cause hamorrhage from the ureter Pain is caused by increased peristalsis due to the irritation of the calculus and increased tension in the Lidney pelvis due to partial block of the ureter

Rarely does a calculus cause complete obstruction of the ureter Anuria of the affected side may be of reflex origin. In 70 per cent of the cases reviewed there was reflex polyuria with diminished specific gravity of the urine from the affected ureter. In these cases of unilateral diuresis the jets followed one another more rapidly on the affected side than on the opposite side. The specific gravity was

measured by glass beads The chief signs and symptoms of ureteral calculi are discussed. According to Papin and Ambard, the pain is pyelic in origin. It may be of great diag nostic aid or very confusing depending upon its location and direction of radiation. In the cases reviewed frequency of micturition was not a constant symptom Rectal tenesmus was an occasional complaint Inflammators signs may be present in association with constitutional reactions such as an increase in the temperature and the pulse rate and a leucocytosus The urine may contain blood pus and bicteria A physical examination without a complete urological examination may easily lead to an incorrect diagnosis because of the variety of the symptoms and findings \ tone in the lower end of a ureter may frequently be felt by rectal or vaginal examination

Examination with the \ ray is one of the most

that are seen must be differentiated by stereoscopic views taken with an opaque catheter or opaque In several of the cases reviewed calcified areas in the perirenal and periureteral fat made the roentgenogram confusing

In about 40 per cent of the cases the ureteral orifice had become sinuous oval circular or irreg In the majority cystoscopic examination showed redness small hemorrhagic splashes and ordema around the ureteral orifice. In four cases the stone was seen at the ornice and delivered

I EDWIN KIRKPATRICK M D

BLADDER URETHRA AND PENIS

A Bacteriological Study of the Puerperal Bladder Am J Obst & Gynes 1928 XV3 104

Kincaid has made a bacteriological study of the nuerneral bladder in fifty eight cases. In fifty one cases the patient had not been catheterized previous to or at the time of labor. In the remaining seven catheterization was done at the time of delivery and the first specimen was rejected

In the first group of fifty one cases a positive culture was obtained at the first catheterization in four (oz 16 per cent) and at subsequent catheteriza tions in 51 per cent of the cases No symptoms of cystitis were noted

The organisms recovered were relatively non pathogenic They included the staphylococcus albus diphtheroids and the streptococcus lacticus. The colon bactilus was rare being found in only 3 4 per cent of the cases From these findings the author draws the conclusion that there is little danger of so called catheter cystitis when the catheterization is carefully performed

The constant presence of colon bacills in the urine during pregnancy or the puerperium suggests the possibility of pathological changes in the urinary

system particularly pyelitis In the two cases of casarean section in which

urmary cultures were made the results seemed to be the same as in the cases in which delivery was effected by the normal route. This was true all o of the few cases of toxemia associated with preg nancy and labor E L CORNELL M D

Chute A L Tumors of the Bladder im J Surg 1928 V 217

In cases with a single small papilloma of the bladder fulguration through a cystoscope is the method of choice In cases of multiple papillomata lulguration may be tried but in refractory cases onen operation is advisable. In all cases periodic cystoscopic examination should be made for a con siderable time after fulguration

The only curative treatment for a tumor of the bladder of any size or of the infiltrative type is open urgical removal with a wide margin

Chute ascribes local recurrences to malignant tis sue left at operation. Interference with renal func-

be passed by a catheter After the insertion of a tube into the kidney pelvis through the tract made by a forceps pushed through the kidney at Broedel's line urmary drainage occurred through and around the tube and improvement in the condition began within twelve hours The patient had lumbar dramage of urine the remainder of his life. He lived about two vears after the operation and died from intestinal obstruction due to extensive intestinal tuberculosis The author draws the following conclusions

Chronic pyelitis can be successfully treated by direct surgical drainage of the kidney pelvis and the instillation of an antiseptic solution through a tube introduce I through a tract bored in the least vascu lar area of the Lidney

2 Chronic pyelonephritis can be successfully treated by the same procedure plus decapsulation

after the manner of Edebohl

3 Even when it seems that the entire unnary tract except a part of one kidney is incapacitated life can be prolonged and the patient at least tem porarily restored to useful work by direct surgical drainage of the renal pelvis

J LOWIN KIREPATRICA M D

Gutlerrez R Non Surgical Renal Tuberculosis 1m J Sug 198 v 90

Non surgical renal tuberculosis is one of the most common and serious of Lidney infections diagnosis is based on the presence of Koch bacilli in cathetenzed urine a positive prographic examina tion and a decrease in renal function. In from 80 to go per cent of the cases the condition is at first unilateral Early diagnosis should be followed by nephrectomy In most cases the infection is carried by the blood stream but in some it reaches the kid ney by way of the lymphatics or the bladder bercle bacilli are often found in unne in the absence of subjective symptoms or apparent lesions in the urmary organs. In one case reported by the author a secondary infection resulted from obstruction at the ureteropelyic juncture

Bilateral renal tuberculo is is not frequent and is always associated with pathological lesions of one or more of the other genito unnary organs. In advanced pulmonary tuberculosis the uninary bladder

is always involved

In reporting ninety three cases of bilateral renal tuberculosis Legueu stated that after the removal of the Lidney with the poorest function the bladder symptoms often subside and the lesion of the re maining Lidney is arrested or cuted. In early cases the involved Lidney should be removed at once

The author says that the secretion of urea in normal quantity is a safe indication of a sufficient amount of kidney tissue capable of functioning The Mayo Clinic ascribes more importance to the phtha The determination of the urea secretion lem test and the phthalem test should be combined with pyclography and guinea pig inoculation

There are certain cases of renal tuberculosis in which surgery should not be applied the best results

being obtained from combined medical and melogical treatment. These are cases in the shared stage with equal involvement of both sides and a marked decrease in renal function. No lidrey should be removed until the chinical data functional tests and pyelographic studies indicate its removal po

Tubercle bacıllurıa does not always mean tubu culosis of the kidney It may be due to a fores of tuberculosis elsewhere Partial nephrectomy mir be indicated Certain cases of pyelonephnis with hydronephrosis and stricture or kink of the unter should be treated cystoscopically When a gross lesion is evident in the pyelogram and there s absence or diminution of renal function the tree ment should be nephrectomy

BENJAMIN F ROLLER, M.D.

Renal Neoplasms Am J Surg 19 5 Hyman A

V 110 Of nanety nane cases of renal neoplasms revered by the author 65 per cent were cases of hyper nephroma Sixty three of the patients were between

forty and fifty years of age and seventy two of them were males The mortality of renal tumors is between 70 as i

80 per cent The symptoms are hamatuna pan tumor backache loss of weight unnary deficults gastro intestinal disturbances and fever. In fitters of the cases reviewed metastases were present when the patient was first seen The secondary manifests tions of the condition are cedema of the abdomen and legs pigmentation and hypertension The di agnosis is aided by the discovery of tumor cells in the urine and by the \ ray findings In some ca ecystoscopy and functional tests may be of as plant

Operation is contra indicated when the tumor is large and immovable and adherent to the spine and diaphragm or extends into the yena cava Deep roentgen ray and radium treatment before and after operation seem to be of no avail. The di ease usu ally kill in three years if operation is not performed. The usual surgical treatment is lumbar nephree tomy To guard against metastasis the renal vers should be ligated if possible before the attempt is made to free the kidney Half of the patients who survive the operation by three years succumb before BENJAMIN F ROLLER M D five years

Papin M Ligation of Both Ureters Obstruction Relieved Cure (Ligature operators des deut

pretères d's batruction guéri on) Bill el min Soc nat d he 1028 hv 1026 Clamping or ligating a ureter even for a sho t

time usually leads to necrosis and stricture but the author reports a case in which both ureters were ligated for fifty one hours without serious res It Following a total hysterectomy for cancer the patient failed to unnate Medi al treatment in stituted on the supposition that the anuna was re-

flex had no effect. After two days the author was consulted and in the course of a cystoscopy cathe

other form of treatment in the majority of cases As compared with expectant treatment it shortens the period of incapacity by 50 per cent. In over 80 per cent of the cases it shortens the time of involution more effectively than any other type of treatment except possibly adoan therapy. It is foll lowed by recurrence less frequently than any other form of therapy except mercunchromes treatment.

Next to epididymotomy aslan is most effective in relieving pain and shortening the period of hos

pitalization and the involution time

Mercurchrome stands next to solan in the relief of pain but while it shortens the period of involution somewhat as compared with expectant treatment it does not materially reduce the period of confinement in the hospital Gilbert Thomas MD

Scholl A J Primary Adenocarcinoma of the Epididymis J Am M Ass 1928 xc1 560

Scholl states that primary solid tumors of the epididymis are rare. Among those of malignant type carcinoma is particularly infrequent.

The case reported in this article was that of a man twenty two pears of age who sought treatment for pain in the right inguinal region and a swelling of the right tests. Fourteen months previously the right tests had been severely injured and three months later a dull pain began in the region of the right inguinal ring. Nine months later the right side of the scrottum began to swell. At the time of the pain inguinal ring. Nine months later the right side of the scrottum began to swell. At the time of the pain inguinal ring. The right side of the pain inguinal right side is normal size and its contents were very sensitive and constantly painful. There was no evidence of previous urethral infection and no history of fever or secretal infadamantsion.

At examination the right half of the scrotum was found distended and fluctuant and transmitted light. The testis was in the center of the fluid lapting drew off oo e. on of clear straw colored lapting drew off oo e. on of clear straw colored and slightly enlarged. The epidogon with rounded and slightly enlarged. The epidogon with enlarged nodular and strengtar. A diagnosis of scute extensive tuberculous epidodymius was made X ray examination of the clear was negative for X ray examination of the clear was negative for

tumor and for tuberculosis

Operation was done under regional anisathesia. The testis was found to be normal but the epididy mis was nodular and red. As microscopic examination revealed malignancy the testis with its coverings and the cord were removed. Uneventful recovery fol

lowed

Three months later a mass 2 cm in diameter was found below the lower angle of the incisson and at a second operation the stump of the cord was excissed at the internal ring and the cord tumor mass and all surrounding tissues including the inguinal glands and subcutaneous tissue were removed. No en larged inguinal glands were found. After the operation X ray therapy was given over the lower portion of the abdomen and the area of recur rence

Four months later the patient became dyspnecic and cyanotic and 4 laters of blood stained fluid were removed from the right side of the chest. Subsequently a rentgenogram revealed a mass about 6 cm in diameter in the region of the hilum of the lung. One week later a second tapping drew off 2 laters of find. Thereafter the chest was tapped about once every ten days 2 to 3 laters being removed the control of t

Histologically the epididy mal growth and the mass removed at the second operation were similar Sections showed a moderately cellular fibrous stroma surrounding large numbers of irregular or elongated spaces completely filled with a typical epithelial cells with a distinctly adenocarcinomatous arrangement. The diagnosis was adenocarcinoma of the epididy mis

The negative V ray examination of the chest made at the time of the first operation precluded the possibility of an extensive primary focus in the lung and the time of appearance and the type of the symptoms indicate that the condition was primary in the scrottum. The timor might possibly have arisen from a testicular rest in the epiddyms but the extensive adenomations type of the growth is very different from that characteristic of testicular tumors. Loris Neuvrix MD.

MISCELLANEOUS

Mckhann C F Pyuria in Children The Use of the Cystogram im J Dis Child 1928 XXXVI 315

The purpose of this article is to stress the importance of the cystogram in the investigation of chronic pyuna in children. In the author's opinion a cysto scopic examination should be made only after all clinical laboratory and X-ray studies have failed to reveal the source of the pus and the child has been under observation for about six months.

Cystography is of great aid in the demonstration of certain tipse of obstruction ureteral reflux and irregulantly of contour of the bladder. In a normal child the cystogram shows the outline of a well filled bladder with no irregularity of contour and no passage of the opaque fluxd into either of the ureters. In 20 per cent of children with pyuma of long standing it shows a reflux. When one ureter is filled the infection is said to be most marked on the side of that ureter.

Cystography can be done quickly and easily with out anaethesia and without the danger of shock The author cites several cases

MAURICE MELTER M D

tion is probably an important factor in the fatal outcome Radical treatment cannot be attempted in all cases of tumor of the bladder as in many instances

only palliation is possible Cases in whi h the bladder has become a solid

indurated mass are best left alone provided there is no considerable retention

Another type of case in which nothing is to be gained by operation is that in which the patient complains of very severe pain referred to the leg or This condition is seen most often in cases with a mass in a lateral nall of the bladder which has directly invaded the tissues of the pelvis

In most cases of tumor of the bladder too far advanced for removal the operation which commonly gives relief is cystotomy and drainage

Patients treated for bladder tumor should be kent under observation for a considerable period of time particularly those with growths of the papillomatous type as these tumors show a tendency to recur and the recurrence may often be kept in check for a long time by fulguration of the superficial growths as they appear on the bladder surface

Louis Gross M D

The Formation of a Urethra from the Bladder Following Its Complete Destruction in a Woman (Contribution à l'étude de la re tau ration de l'urèthre chez la femme et de sa formation avec la vessie en cas de destruction complète) Gynte et obst 1928 xun 6

The case reported was that of a Russian neasant woman who was married at sixteen years of age The patient's first labor was difficult and lasted three days On the fourth day a dead fetus was ex tracted with the forceps. Three days after delivery the patient was catheterized and on the fourth day incontinence of urine began On her admission to the hospital two and a half months later a bladder fistula surrounded by scar tissue was found on the anterior wall of the vagina. The entire urethra and most of the antenor wall of the vagina had been destroyed. The uterus was small atrophied and displaced backward. It was reduced with difficulty The patient had not menstruated since delivery

Operation was performed under novocain spinal When the bladder had been entirely freed from the surrounding cicatricial tissue a small incision was made directly beneath the chitoris Kocher's forceps were introduced into it and an opening was made beneath the clitoris and sym physic considerably higher than the normal opening of the urethra A finger was then introduced into the bladder and a protrusion made on its anterior wall Then by means of a loop of silk attached to the protrusion the wall of the bladder was pulled down into the canal that had been formed canal was incised at the end and sutured to the one e made beneath the chtori

After the operation the external appearance of the genitalia was normal. The patient was able to

tetain her urine when walking standing or ling down and for periods ranging from four to six hous Her general health is now excellent and the resty formed urethra functions exactly like a norm? urethra AUDREY G MORGAN M.D.

GENITAL ORGANS

Baker T The Value of Vas Injection in Chronic Genital Infections Based upon a Senes of Seventy Five Cases J Urol 1918 21, 13

The author has tried was injection for stenlization Or disinfection in seventy five obstinate cases of di. case of the seminal vesicles. He te harque is the used by Thomas Belfield and o hers He durler the cases in groups according to the seventy and

character of the pathological changes He concludes that medication of the semual vesicles by vas injection will effect a cure in about 40 per cent of cases of seminal vesicle infe ton An equal number of cases however will requester treatment such as prostatic massage the use of sounds and irrigation has injection should be it served for cases which have resisted other twes of treatment for several months In Baker's opinion, the danger of sterdity is less when vas p or ore is done than when vasotomy is performed ELMER PE 5 M D

Garvin C H Chronic Prostatitis Okio State If I 1028 XXIV 618

The author states that in cases of are britis it which the discharge persists for longer than four weeks in spite of treatment the prostate and vesicles have probably become infected. He calls attention to the fact that non specific infections of the prostate are much more common than is generally believed He summarizes the generally accepted methods of treatment

In conclusion he states that a standard of cure which does not include a complete urethroscopic examination of the urethra together with microscopical and cultural examinations of the expresed secretion of the prostate and vesicles is incomplete HE BY L SANFORD M D

Stone E. A Comparison of the Results of Various Treatments for Acute Gonorrheal Epididy mitis J U of 1028 xx 24

The author states that in acute gororrhoral epi didymitis expectant treatment a one is insufficient bodium iodide gives no better results than expectant treatment alone Diathermy ma, obviate incapic at) in some cases but does not have much effect on the pain and gives the poorest results as regards involution Calcium chloride and gonolin were not studied sufficiently long to warrant an opinion to garding their influence on involution Il his Sto e has discontinued the use of gonolin he recommends a further trial of calcium chloride

Epididymotomy gives immediate relief of pain in a large number of cases and earlier relief than an) touch over most of the body and varied with the lime salts bone atrophy erosion distention of the

duration of the disease

The cardinal symptoms are pain aching and

soreness induced or aggravated by movement of the spinal vertebræ and associated most commonly with successing straining at stool and coughing (Dejer nes sign) and the subject's usual routine activity.

The localization of the symptoms depends upon the region of the spine that is involved. In olvement of the second and third cervical vertebra produces headache soreness and burning at the occiput radi

ating to the vertex or the temples
Involvement of the fourth to the seventh cervical

involvement of the identity to the section eventual eventual eventual eventual extension and stiffness on the outer side of the neck and up and down the back of the neck and pain radiating down the outer side of the arms

When the second to the fifth dorsal vertebra are affected there is pain over the precordium radiating in an angionod manner toward the shoulders and armpits and down the inner side of the arm often to the little fingers. These symptoms are frequently attributed to heart disease.

Involvement of the sixth to the ninth dorsal vertebræ causes pain burning tingling beaviness stabbing and gas in the epigastrium which

suggest a digestive disorder

The symptoms of involvement of the tenth to
the twelfth dorsal vertebre are usually attributed
to appendict or in women to involvement of

the uterine adnexa

Involvement of the upper lumbar vertebrae causes pain and a burning sensation beginning over the upper part of the thigh or behind the disac crest or at the sides of the thigh and radiating into the area over the inguinal ligament or downward across the front of the kines.

In cases with involvement below the third lumbar vertebra there is pain over the sacrum which radiates down the anatomical distribution of the first and second spinal roots Reports S Reich M D

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Wallace J O The Diagnosis and Treatment of Surgical Tuberculosis in Early Childhood Allantic M J 1928 IXXI 927

In the diagnosis of surgical tuberculosis in early childhood a carteluly taken history is of importance. Pain is a variable symptom but of decided significiance. Reflex muscular spasm is usually present and involves the muscles adjacent to the affected tont.

Laboratory measures of aid in the diagnosis are (i) examination of aspirated fluid by microscope culture and animal inoculation (2) shan tests (3) biopsy test (the author condemns biopsy tests of joints which have not broken down) (4) a blood count and (5) the Wassermann test

The roentgenogram is of great assistance. The characteristic roentgen findings are the absorption of

joint and in old cases bone proliferation.

In the differential diagnosis transient arthritis rheumatism, arthritis deformans uyvenilis acute

rheumatism arthritis deformans juvenilis acute epiphysitis and syphilis must be ruled out

Essentials in the treatment are proper fixation good food open air and correct posture. For the treatment of spinal tuberculosis. Wallace has devised a frame with a hinge arrangement which produces hyperextension at the site of the disease. He emphasizes the value of helotherapy and states that in bone or joint tuberculosis in children surgical in terference is ratieval advassed.

RUDOLPH S REICH VI D

Brown C J O The Diagnosis and End Results of Tuberculosis of the Hip Joint Med J ins trains 1928 11 196

Of the seventy one cases of tuberculosis of the hip reviewed by the author twelve were doubtful cases in which the condition was monarticular and chronic. In eight of the latter the hip is now fund tionally normal and in three there is only slight limitation of movement A good functional result was obtained also in sixteen cases of undoubted tuberculosis in fourteen of which the joint is ankylosed In nine cases the result is unsatisfactory because of healing with gross bony destruction of bone subluxation and deformity Thirteen patients died of meningitis and generalized tuberculosis and twenty one are still under treatment. Of the latter thirteen have been treated for four years and show destruction of the head of femur and acetabulum seven show improvement in the condition of the hip and six have amyloid disease

In hip disease without \times ray evidence of bone destruction the condition may or may not be tuber culous and complete recovery is likely to occur. In cases with destruction of the articular surfaces an kylosis with from 30 to 35 degrees of flexion gives the best result.

Taylor J The Treatment of Tuberculous Disease of the Hip Glasgow M J 1928 cx 120

The author reviews a group of cases of tuberculous disease of the hip observed over a period of eight years in which the treatment was similar to that carried out at Berck sur Mer The measures employed included carefully graduated irradiation by both natural and artificial sunlight and partial immobilization of the hip joint. In cases admitted with deformity a special extension apparatus was applied for gradual correction. In cases with disloca tion or fixation of the head forcible manipulation was resorted to and fixation applied. Although this method is held in disfavor by most authorities Taylor considers it safe. When complete osseous ankylosis had resulted correction was obtained by osteotomy

The results tabulated by the author show an increased number of movable joints and a decreased amount of shortening Romozen S Reich M D

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS, MUSCLES TENDONS ETC

Cooperman M B Gonorrhoeal Arthritis Am J Surg 1928 v 241 Cooperman reviews 44 cases of gonorrhoeal arthri

ts in young children and 26 cases in adults. The inflats were five or six weeks of age and their point complications were of three or four weeks under the first point complications were of three or four weeks unfected and practically all were supportants. No deaths occurred and complier rerovery of joint function was obtained in 75 per cent of the cases to because no benefit was sorted following their user the joints were treated by the application of casts to provide the property and physiotheraps.

Twelve were treated for enheten months and 2: are still under tocatement after three years. In the 26 adults the monatticular infections were still the most resistant. In cases treated surgically during the scute stage there was only slight in pairment of function. In the acute stage the best methods of treatment are aspirations and arthroto miss to releve the intra atticular tension combined

Six of the infants were discharged after three months

and it after five months with normal function

with temporary fixation in casts

During the subsiding stage of the disease, physiotherapy is indicated Joints showing advanced pathological changes are best treated with appliances to prevent the development of deformities

ELVEN J BERKHEISER M D

Meyer 4 W Spontaneous Dislocation and De struction of the Tendon of the Long Head of the Biceps Brachil Fifty Nine Instances 4rch Surg 1928 x n 493

The author states that when the tendon of the long head of the bacep brach us adslocated if probably undergoes considerable wear but even when it remains in its normal position and in an otherwise normal shoulder joint if may be subjected to went the believes that prominence of the supraiglenoid tuberthe of the tendon as the tendon frequently may be able to the supraiglenoid lay as to be undistinguishable and inseparable from it.

Partial or complete distinction of the articular

portion of the tendon is relatively uncommon but the author has collected thirty nine cases of dislocation and twenty of complete absence of the articular portion. In all of the cases of absence of the articular lar portion the tendon had obtained a secondary attachment to the floor or sides of the sulcus or to the humeral disphysis distal to the lesser tub neaty. Meyer is of the opinion that some case in which the durided tendon oblauned a scondary study ment to the darph six distal to the leser; thereiny it may have been adsocated and have plaved on the tuberosity before it was divided. He believe this tuberosity before it was divided. He believe that may be true also of cases in which the tender at attached to the floor of the sulcus in the reges of the leser; tuberosity as it is not necessary for the leser; tuberosity as it is not necessary for the tender of the leser tuberosity as the way to the substitute of the leser the benefit to be walkened by well.

The greater frequency of absence of the litts articular portion of the tendon on the right sole may be due to night handcares and the somethal greater frequency of adapcation on the left side with be due to the fact that greater tenson systian it tendon and the engaging attachment on the little side on occupations requiring shockling and printing with a fork in which the left hand each as a future and the left humerus passes into maked little notation and abduction at every more count.

A study of the anatomy of the harners capular articulation shows that normal conditions of th humeroscapular articulation favor di location of the long head because until the arm is somen'st ab ducted the tendon curves forward encircling the slippery and sloping rounded surface of the upper anterior portion of the head of the humerus The nature of the anterior wall of the sulcus -especially the presence or absence of the bony ridge termed by the author the supratubercular ridge -is an important factor in dislocation. When the arm is slightly rotated laterally the undersurface of th tendon hes fully on the floor of the sulcus bu 2 lateral rotation is increased its anterior margin 2 forced against the antenor wall of the sulcus tope cially the part formed by the lesser tuberosity and the capsular attachment proximal to it

ANTBONY F SAVA, M D

Counther L. The Radicular Syndrome in Hyper trophic Osteo-Arthritis of the Spine Colfors a & H of Med 102° XXX 152

The radicular syndrome as very frequent in e-borathnit of the spine. It is described by Depense is an acute inflammation of the spinal roots with literations in sensation or muscle function which about heir distribution that the primary disease process is in the spinal root. In the cases reviewed by the author tests with a cotton trift pin point backed or principle distribution that the primary distribution of the control of the process of the control of the control

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Theis F V Ligation of the Artery and Concomitant Vein in Operations on the Large Blood Vessels Arch Surg 1928 xvn 244

Ligation of the artery and the concomitant vein in traumatic surgery is recognized to be of great clinical value.

Roentgen ray examination soon after operation shows that the development of the vascular bed is most marked when the vein is simultaneously or cluded. This immediate benefit may be the deciding factor in maintaining the vitality of the limb in cases of gradual orchison of the arternal tree it.

was found that the collateral vessels had had an opportunity to develop and that the final vascular bed was greater when the vein was patent

Billian T Snackleton M D

Morton J J and Pearse H E Jr The Tem perature Effect of Popliteal Vela Ligation in Thrombo Anglitis Obliterans and Arterios le rosls 1an Surg 1928 Travin 233

In recent years it has been well established by both clinical and erypermental evidence that ligation of a farge artery should be accompanied by textion of its companion cent. This procedure do the companion cent. This procedure do by improved functional ability and as in trease in the residual arterial pressure the venous pressure the muniter volume flow from the end of the duvided actery and the perspherel arterial circulatory bed it was reasoned by the authors that if rangerein

evie might be prevented in the same way. Ligation of the popical view was therefore done in cases of arterioselerosis and thrombo anguits The surface or shin temperature was determined by remaining an anerold thermometer and the deep remaining the state of the surface of the contest. The determinations were made at the time of operation evers lew minutes for an hour or more after the operation and thereafter at intervals up after the operation and thereafter at intervals up the surface of the surface

from arterial ligation can be prevented by occlusion

of the vein impending gangrene from arte ial dis

to as long as four weeks after the operation.

In five of seven caves a definite increase (from a fraction of r degree to 3 degrees) in temperature was noted after the ligation. The increase was especially as the seven of the control of the properties of the previous seven of the previous se

The authors suggest that the temperature increase after the ligation may be due to a disturbince of the vasomotor mechanism of the blood vessels or to the shunting of the blood through superficial vessels. Money A. Story M.D.

De Massary E and Flandrin P Runture of an Aneurism of the Abdominal Aorta Into the Duo denum (Aneurisme de la orte abdominale lissuife dans le duodenum) Bull et mém Soc méd d hôp de Par 1918 Shi. 125

The authors report a case of ancurism of the abdominal aorta which evolved without symptoms until it runtured into the intestine

The patient a man of fifty three years who had been a bicycle racer entered the bospital because of a sudden hamorchage from the mouth and anus

He had had no gastric disturbances but had suffered from attacks of sciatics for several months and three years previously had been under treat ment for gumma of the testicle. The syphilis which was contracted twenty years before had been in differently treated

Fxamination revealed a large pulsating tumor of the abdomen over which a thrill and systolic brist were noted. The systolic blood pressures of the legs taken at the ankle showed a difference of 40 mm

For five days there were no further hamorrhages and the patient s condition improved. Then a small amount of blood was passed by bowel and on the sixth day the hamatemesis recurred.

During the evening of the seventh day the patient suffered violent pain in the abdomen and presented all the signs of acute anæmia. He died the following processes

At autops, the small bowel was found filled with blood Behnd the pertineum and over the lower lumbar vertebru there was a rounded tumor a diaaxton of the termanal portion of the sorts which had eroded deeply, the bod et of the vertebru. Higher up the walls of the aorta became moistinguishable and the region just above the renal arteries was occupied by an evormous clot In this portion of the automathe communication with the duodenium was found ABBET. FD GEORY M.D.

BLOOD TRANSFUSION

Visymeord W V and Piney A Some Effects of Radiation on Blood B it J Radial 19 3

This report is based on experiments performed on rabbits. The ventral surface of the animals was exposed to rays of rather low wavelength—0.375 A. The factors were 90 ky 29 ma a distance of 245 cm and practically no filter. With these fac

FRACTURES AND DISLOCATIONS

Taylor R T Fracture Dislocation of the Shoul der The Relation of Soft Parts to Restoration A New Method of Treatment Arch Surg 1028 XVII 475

The author reports a case of fracture dislocation of the protimal end of the humerus in which the fracture extended through the surgical neck and the muscle spasm of the supraspinati and infraspinati rotated the proximal fragment or humeral head through an art of 180 degrees so that its fractured

surface was directed upward After unsuccessful attempts at reduction under anæsthesia the patient was put up in a Balkan frame flat on his back. The spring and mattress were made additionally firm by cross slats Projecting from under the mattress beyond the left side of the bed for about 2 or 3 ft was a board 5 ft long and 4 in wide To the upper surface of this board at its outer end a similar piece of board 4 by 4 in was nailed at right angles and at its center was surmounted by a vertical pulley By means of this rough board which was held by the mattress and the patient's weight in any position in which it was placed by the surgeon horizontal traction over the pulley was made at any desired angle of abduction by means of adhesive straps and a spreader attached to the upper arm. The forearm with adhesive straps applied from elbow to hand and the upper arm supported with a sling with a spreader were suspended from the overhead bars of the Balkan frame with appropriate pulleys and counterbalance weights About 5 lb each were used as counterpoises for sus pension of the forearm and arm and in abduction at the side of the bed from 10 to 15 lb were used as the case progressed

After reduction by means of this apparatus a cast was applied from the hand to below the crests of the

About ten weeks after injury the patient was able to return to his work ANTHONY F SAVA M D

Holderman II II Fracture and Dislocation of the Sternum Inn Sire 10 8 laxxviii 252

The author states that fractures and dislocations of the sternum are rare They occur most frequently in mining communities The most common causes are direct blows on the chest compression and crush ing of the chest hyperflexion of the spine asso ciated with fractures of the vertebral column falls and the falling of a heavy weight on the chest In some cases however the condition is the result of undirect violence and muscular action

The most common type of sternal fracture is a transverse break at the juncture of the manubrium and gladiolus. In the great majority of cases the displacement is such that the lower fragment lies partially in front of the upper one sometimes over riding it The fracture is usually simple

The prognosis is good in uncomplicated cases but decidedly poor in those with complications. In the

uncomplicated cases repair with the formation of a bony callus usually takes place in from four to ent weeks

Operative treatment is frequently justifiable bit in most instances the reduction can be accomplished by manipulation and maintained by an adhene plaster swathe Hyperextension of the spine with the shoulders held back may be necessary Scudin states that the patient should remain in bed for three weeks and should wear a Taylor back brace for two months

Holderman reports three cases ROBERT C LOVERCAN MD

Dickson F D Fractures of the Ankle J An M Ast 1028 vet 840

Direct violence plays a very unimportant ide in fractures of the ankle The types of indirect violence causing such fractures are (1) external rotation causing torsion fracture of the fibula and occa ion ally rupture of the internal lateral ligament (2) abduction causing rotation of the astragalus resulting in rupture of the internal lateral ligament and fracture of the fibula (3) adduction which tears of the external malleolus and causes fracture of the fibula and occasionally a fracture of the internal malleolus by rotation of the astragalus and (4) an upward compressive thrust on the tibial mortan causing separation of a triangular fraoment from the posterior surface of the tibia lateral and backward displacement of the astragalus and fracture of the fibula

Fractures of the ankle may be classified as fol

lows A Fracture of the malleoli

1 Isolated (a) fibula (b) internal malleolus Combined (2) low bimalleolar witho tds-

placement of astragalus Fractures of the weight bearing surfaces of

the tibia Isolated (a) posterior marginal fractures,

(b) anterior marginal fractures

Combined anterior or posterior matgical fractures associated with fractures of the

The diagnosis of fracture of the ankle is based on a history of injury a localized point of tenderness over the regions affected effusion and outward displacement of the foot the degree depending upon the amount of displacement of the ast agalus in creased lateral mobility and positive roentgenographic findings

Reduction should be effected as soon as postible under complete anæsthesia and the foot immobilized in a plaster cast in marked inversion. Ra ly fixs tion in the normal position is demanded Follow ing the reduction other roentgenograms should be

The author uses a bivalved cast At the end of the second week the anterior balf of the cast is removed and light massage and toe movements are begun

RUDOLPH S REIGH M.D.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

RLOOD VESSELS

Ligation of the Artery and Concomi Theis F V tant Vein in Operations on the Large Blood Vessels Arch Surg 1928 xvii 244

Ligation of the artery and the concomitant vein in traumatic surgery is recognized to be of great clinical value

Roentgen ray examination soon after operation shows that the development of the vascular bed is most marked when the vein is simultaneously oc cluded This immediate benefit may be the decid

ing factor in maintaining the vitality of the limb In cases of gradual occlusion of the arterial tree it was found that the collateral vessels had had an opportunity to develop and that the final vascular bed

was greater when the year was natent

WILLIAM F SHACKLETON M D

Morton J J and Pearse H E Jr The Tem perature Effect of Popliteal Vein Ligation in Thrombo Anglitis Obliterans and Arterloscle rosis Ann Sure 1028 lxxxviii 233

In recent years it has been well established by both chinical and experimental evidence that ligation of a large artery should be accompanied by ligation of its companion vein. This procedure de creases the incidence of gangrene and is followed by improved functional ability and an increase in the residual arterial pressure the venous pressure the minute volume flow from the end of the divided artery and the peripheral arterial circulatory bed

It was reasoned by the authors that if gangrene from arterial ligation can be prevented by occlusion of the vein impending gangrene from arterial dis ease might be prevented in the same way

Ligation of the popliteal vein was therefore done in cases of arteriosclerosis and thrombo angutis The surface or skin temperature was determined by means of an aneroid thermometer and the deep temperature by means of a thermocouple gulvanom eter The determinations were made at the time of operation every few minutes for an hour or more after the operation and thereafter at intervals up to as long as four weeks after the operation

In five of seven cases a definite increase (from a fraction of 1 degree to 3 degrees) in temperature was noted after the ligation. The increase was especially marked when the artery was not entirely occluded and was felt to be pulsating. The cause and significance of this phenomenon is not clear The effect of the operation on the pain ordema and color the growth of the nails and fatigue was favor The temperature changes in the limb were associated with other signs of functional ability of the circulation

The authors suggest that the temperature increase after the ligation may be due to a disturbance of the vasomotor mechanism of the blood vessels or to the shunting of the blood through superficial vessels MORRIS A SLOCUM M D

De Massary E and Flandrin P Runture of an Angurism of the Abdominal Aorta into the Duo denum (Anéurisme de l'aorte abdominale fissuré dans le duodenum) Bill et mêm Soc méd d hôp de Par 1028 xliv 1205

The authors report a case of aneurism of the abdominal aorta which evolved without symptoms until it runtured into the intestine

The patient a man of fifts three years who had been a bicycle racer entered the hospital because of a sudden hemorrhage from the mouth and anus

He had had no gastric disturbances but had suffered from attacks of sciatica for several months and three years previously had been under treat ment for gumma of the testicle. The syphilis which was contracted twenty years before had been in differently treated

Examination revealed a large pulsating tumor of the abdomen over which a thrill and systolic bruit were noted. The systolic blood pressures of the legs taken at the ankle showed a difference of 40 mm

For five days there were no further hamorrhages and the patient's condition improved Then a small amount of blood was passed by bowel and on the sixth day the hamatemesis recurred

During the evening of the seventh day the nationt suffered violent pain in the abdomen and presented all the signs of acute anarmia. He died the following morning

At autopsy the small bowel was found filled with blood Behind the peritoneum and over the lower lumbar vertebræ there was a rounded tumor a dila tation of the terminal portion of the aorta which had eroded deeply the bodies of the vertebrae Higher up the walls of the aorta became indistinguishable and the region just above the renal arteries was occupied by an enormous clot In this portion of the ancurism the communication with the duodenum was found ALBERT F Dy Const M D

BLOOD TRANSFUSION

Mayneord W V and Piney A Some Effects of X Radiation on Blood Brit J Radiol 1028

This report is based on experiments performed on The ventral surface of the animals was exposed to rays of rather low wave length-0 375 A The factors were oo ky 20 ma a distance of 24 5 cm and practically no filter With these far

tors the full skin tolerance dose was 540 R and was delivered in twenty eight and three-tenths minutes When large doses were given the effect uniformly

When large doses were given the ellect unionrally seen was a persistent lymphocy lopenar. This effect was immediate. In one case the leucocytes were reduced to 60 seels during the administration of the dose (seven hours). This marked fall was soon foltions of the control of the cont

Smaller doses (500 R) were tried in two ways—in divided doses administered over a period of twenty three days and in a single dose. Both methods caused a preliminary drop in the number of lymphocytes and a secondary increase in the number of lymphocytes and a secondary increase in the number of metrophile? Divided doses caused a more intense single dose caused a more latente single dose caused a more latente single dose caused a more latente single dose caused a moderate monocytosis lating several days.

Causes: Il Histocor M D

Pacha K R Evidence That There Is a Hæma topoletic Hormone in the Blood of Anæmic Children (La venteaton de l hormone hématopoétique dans le sang des enjants anémiés acci dentellement) I resse méd 1918 xxxx1 920

It has been shown experimentally that a hæma topoletic hormone develops in the blood of laboratory animals after animals has been brought abest up facilly. The author reports several clinic acwhich demonstrate that there is inch abone in the blood of children who arter-overing firmsizes. One case was that of a ten year old gift with saven from analysionsmiss and another that of ate by rold boy with animals endently due to tuberda's of the plands of the neck. In the former the rish rocyte count was 1 500 000 and in the latter it was 1 200 000.

Both patients were given hygienic and dietetic treatment and extract of sheep's spleen In adhuor the gurl was given treatment for the anky lostomism Before the disappearance of the ova from the stook the girl's erythrocytes increased to 4 200 000 and after the disappearance of the ova they increased to more than 6 000 000 This showed that the blood was rich in hæmatopoietic hormone. In the case of the boy the erythrocytes had increased to only 2 300 000 after fifty days of treatment a fact stinb uted by the author to inhibition of hamatopoits by bacterial toxins The boy was therefore given in jections of from 0 5 to 1 ccm of the serum of the girl's blood which was evidently rich in hamatopoietic hormone After three injections the number of erythrocytes had increased to 3 800 000 at the end of a month it was 4 600 000 and at the end of two months it was 6 500 000

AUDRES G MORGAN M D

SURGICAL TECHNIQUE

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Doughty J F Rattlesnake Bite California & Il est Med to 8 XXIX 237

Rattlesnakes are found in many parts of the United States and the hazard of rattlesnake bite is increasing because of the increase in outdoor recrea tions. The author reports two fatal cases of rattlesnake bite and reviews nineteen cases collected from the literature. The physiological actions of the verom are classified and the mechanism of the bite is briefly described

Prevention of rattlesnake bite is possible to a great extent by the wearing of leather puttees The non specific methods of treatment discussed are methods which attempt to withdraw the poison from the part ligation and efforts to destroy the poison

in situ by chemicals

Specific treatment by snake antivenom depends for its effectiveness upon the specificity of the antivenom for the species its early administration and a lequate dosage

The author's conclusions are as follows

Local treatment is inefficient but ligation is a valuable first aid measure

2 Up to the present time the mortality has de pended largely upon the amount of venom injected There is a specific antivenom

In the discussion the mortality in sixty seven cases reported in Texas in which antivenom was not used as given as as a ner cent. In eighty three cases treated with antivenom it was 6 per cent

Rice T R and Harvey V K The Therapeutic Use of Bacteriophage in Suppurative Condi tions J Lab & Clin Med 1028 xiv 1

Rice and Harvey used bacteriophage filtrates in the treatment of fifty cases of infection due to staphylococcus aureus staphylococcus albus bacil lus coli and bacillus pyocyaneus Most of the strains of bacteriophage were isolated from mixed sewage and then trained to activity by being grown with the particular organism against which lytic activity was desired so that there was active though not necessarily complete lysis of the auto genous culture in eitre. The best results were ob served when the best lysis was obtained

Is a rule the bacteriophage filtrate was applied directly to the lesion as a wet dressing or as an restillation into a sinus an abscess cavity or the urmary bladder. In two cases the material was

injected into an unopened abscess

The authors attribute their good results to (1) direct destruction of the offending organism by the bacteriophage (1) an antivirus action (3) a bacteria

antigen content or (4) a combination of these prop erties The conditions treated were boils carbuncles abscesses ulcers bed sores and urmary infections RICHARD F HERNDON M D

Handley W S The Treatment of Gangrene Rest M I 1018 11 503

The vasomotor surgery of gangrene is reviewed from the historical standpoint. Leriche is cited as having reported successful results from sympathec toms in causalgia after war wounds certain painful crises preceding gangrene caused by obliterative endarteritis Raynaud's disease certain cases of pain ful stump muscular spasm secondary to war wounds trophedema and trophic picers

The vasodilating effect of periarterial sympathec tomy is transitory disappearing in from three to four weeks Leriche does not recommend his operation for sende gangrene that has already developed

The author prefers alcohol injection to Leriche's operation. He claims that by means of it he has been able in certain cases to avert threatened gangrene or to arrest the spread of semile gangrene

The effect of alcohol injection is immediate vaso dilation which lasts for a year or more. The main criticism of the alcohol injection is that it is impossible to predict in which cases the method will be beneficial Anatomical variations also present diffi culture

Vasomotor surgery can be applied before gan grene has set in I FRANK DOLCHTY M D

ANÆSTHESIA

Donovan R Beretervide J J and Rechniewski C Meningomy elitis in a Heredosyphilitic Pa tient Following Spinal Anæsthesia (Menuncomielitis en un heredo específico consecutiva a una

raqu anestesia) Rev Soc de med interna y Soc de ficial Ing8 tv 67

Unfavorable after effects of spinal anasthesia con sist usually of headache comiting backache and rigidity of the neck Aseptic meningitis with harmor thage and purulent meningitis are very rare. A preexisting or latent meningeal affection such as tuber culous meningitis may be lighted up as a result of spinal anæsthesia

In the authors case of syphilitic meningomy elitis developing after pinal a asthesia there had been no symptoms of lues whatever before the intraspinal injection. After the injection paraplegia developed below the point of injection with clinical symptoms of meningomy elitis and all the biological reactions of syrbilitic meningitis Considerable improvement followed the administration of antiluetic treatment although the serological reactions remained positive WILLIAM R. MEEKER M D.

161

tors the full skin tolerance dose was 540 R and was delivered in twenty eight and three tenths minutes

When large doses were given the effect unformly seen was a persistent lymphocytopena. This effect was immediate. In one case the leucocytes were reduced to 80 cells during the administration of the dose (seven hours). This marked fall was soon toltion to the second of the second of the concrease persisted but before the death of the animal the neutrophiles were exceeded by the monocytes. No changes were noted in the number of red cells

Smaller doses (500 R.) were tred in two ways—in divided doses administered over a period of twenty three days and in a single dose. Both methods caused a preliminary drop in the number of Ji righo cytes and a secondary increase in the number of Divided doses caused a more interseand prolonged disturbance but no monocytosis. The experimental control of the control

Pacha N. R. Evidence That There Is a Hæma topolicit Ghildren (La vénfication de l hormone hémato poiétique dans le sang des enfants anêmiés acci dentéliment) Preise mět 19 8 xxxx1 550 xxxx1 550

It has been shown experimentally that a hæma topoietic hormone develops in the blood of laboratory animals after animon has been brought about suficially. The author reports several cloud coswhich demonstrate that there is such a botose in the blood of children who arrecovering/marrian One case was that of a ten year-old gid with airms from ank, lottomass and another that of a to give old boy with animons and another that of a to give of the glands of the next. In the former the cythor of the glands of the next. In the former the cythwas 1,000000 and in the liter at was 1,000000. Both patients were given bygene and detter

treatment and extract of sheep sipies. In situate the grif was given treatment for the analysiotomus. Before the disappearance of the ova from the stock the grifs erythrocytes increased to 4,00000 as after the disappearance of the ova they morrised to more than 6 ooc ooc. This showed that the show has produced the three than the produced that the show the erythrocytes had morread the town the produced that the show the erythrocytes had increased with the show the erythrocytes had increased with the show the state of the show the

end of a month it was 4 600 000 and at the end of

two months it was 6 500 000
ALDREY G MORGAN M D

studies suggest that age is a factor of primary im

portance To determine the part played by age in the mor tality rate from cancer Eggers compared the trend of the cancer mortality rate with the trend of the mortality from conditions designated as degenera tive diseases which ordinarily take their toll from

the same age group as cancer When the mortality curves were plotted for age periods the curves for cancer mortality and degener ative diseases entirely paralleled each other in a straight rising curve up to 1918 the year of the in fluenza epidemic. Then after a slight drop the cancer death rate resumed its normal course whereas the death rate from degenerative diseases dropped much further in 1018 and in 1023 was still fluctuat

ing and had not yet reached its normal course The drop in the mortality from cerebral hæmor rbage and apoplexy was of short duration The drop in the death rate from organic heart disease was somewhat longer In cases of chronic nephritis the mortality still showed a reduction in 1024 The findings therefore indicate that the death rate from cancer and the combined death rate from the other usual diseases of advanced age with the exception of chronic nephritis show an almost strictly proportion ate rate of increase for the twenty five year period studied

The author believes that if some of the increase in the cancer mortality were due to increased accuracy in diagnosis there would have been an increase in the mortality of cancer over that of other diseases of similar age distribution since cancer would prob ably be more frequently missed than erroneously diagnosed as being present. There was no indication of such an increase during the twenty five years of this report HARRY C SALIZSTEIN M D

GENERAL BACTERIAL PROTOZOAN, AND DADASITIC INFECTIONS

Stewart F W and Haselbauer P Virus Neu tralization Experiments with Rosenows and Pettit a Antipoliomyelitic Sera J Exper Med 1028 xlvm 440

During the past decade three types of antipolio myelitis sera have been employed in the treatment of acute anterior poliomy elitis These are (1) the sera of convalescent human poliomyelitis (2) sera from horses immunized against the streptococci supposed by Rosenow and others to be related to those causing poliomyelitis and (3) the Pettit serum pre pared at the Pasteur Institute The last mentioned product is a serum from sheep or horses supposedly immunized against pohomyehtis virus by repeated intravenous injections of emulsions of spinal cords of monkeys suffering from poliomyelitis

From their experiments the authors reached the following conclusions

I The Rosenow antistreptococcus poliomy elitis serum concentrated or unconcentrated does not neutralize the virus of poliomy elitis in monkeys

- 2 The Pettit antipolioms elitis horse serum neu. tralizes the virus only occasionally
- Immune sheep sera prepared according to the method of Pettit have not neutralized virus even when the normal sera of the same animal have effected neutralization
- Such neutralizations are difficult to explain and should not be confused with the constant virus neutralizing action of both human and monkey convalescent sera
- 5 Experimental evidence affords no basis for the use of either the Rosenow or the Pettit serum in the therapy of poliomyelitis SAMUEL KARN M D

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Siye M The Relation of Heredity to Cancer
J Cancer Research 1918 x11 83

Slye states that Luttle shypothesis that the genetic factor in cancer is a heterogous dominant is pure assumption and has been gous dominant is pure assumption and has been demonstrated under the genetic factor has been demonstrated mendelian recessive. To support this theory, numer ous charts showing a herelitary study of material cerous and non-cancerous mice strains are presented and analyzed. Natura N. CROW MD.

Suglura K Studies upon a New Transplantable Rat Tumor J Cane r Research 1928 x11 143

The author's findings with regard to a new trans plantable rat sarcoma are summarized as follows

I A relationship existed between tumor growth and the age of the host. The ages of the animals greatly influenced the results of transplantation

b. Sucking and very young rats proved to be the most favorable hosts for the continue I growth to the sarrows. In the sucking rats the undence of tumor regression in the positive transplasts was 9 per cent whereas in the middle aged and old rats it was 87 per cent. However the percentage of tales and their rate of growth were the same whether the hosts were very young or old.

3 The essential difference between the histological structure of the transplanted tumors (after successive generations) and the original tumor was an increase in the size and number of the sarcoma cells. A Rats immune to one type of tumor may or

may not be immune to another kind
5 The transplantability of the rat sarcoma is
completely destroyed by immersion in a Locke
Ringer solution or a buffer mixture solution with a

hydrogen ion concentration of 2 3 or 4 for twenty four hours at a temperature of 3 degrees C.

6 The growth capacity of the saccoma was de stroyed when the tumor was heated for thirty minutes at a temperature of 45 degrees C but the tumor cells were still viable after an exposure of

twenty minutes to a temperature of 45 degrees C
7 The viability of the fresh sarcoma was completely destroyed by dehydration

pletely destroyed by dehydration

8 The tumor producing substance of the rat
sarcoma is not filterable Joseph K Narat M D

Reinhard Buchwald and Tucker Some Further Experiences with the Production of Colloidal Lead of Salts of Lead J Cancer Research 1928 nt 150

The Bredig method of arcing between lead electrodes in an aqueous solution of gelatine and cal cium chloride yields a colloidal solution of meialic

By substituting various other chlorides such as those of irom sodoium and polarismum the author were able to produce more concentrate solution. The best solution with respect to concentration as stability was obtained by the use of potss im chloride. This solution was employed for most of the work.

The methods of preparing collor hal solutions of lead and salts of lead are described. Determinators were made of the influence of acidity and the amount of protectant on the resulting concentration of lead.

| Descript North Value VID. | Descript North Value VID. |

Guyer M_F and Daniels F Cancer Irradiation

with Cathode Rays J Cancer Research 1918 m 166

The cathode rays correspond to beta rays from radium but are available in much larger quantities. In general they are slower in velocity than the beta rays and freer from the penetrating \(\chi \) ray or gamma

From experiments it is evident that in critical tumors which are not too far advanced the actual tumors which are not too far advanced the ceitable properties of the properti

The cathode rays injure skin ti sue when they are applied directly to it but apparently do not produce malignant growth

The treatment of one tumor does not affect an other tumor in the same animal the action of the cathode rays being direct ratherthan systemic form K Nary M D

Eggers II E The Increased Mortality Rate of Cancer J Ca cer Resea ch 1928 x11 9

The reported mortality rate of malignant does are increased from 63 per 100 con 1000 to 15 per 100 con 10

studies suggest that age is a factor of primary importance

To determine the part played by age in the mortality rate from cancer. Eggers compared the trend of the cancer mortality rate with the trend of the mortality from conditions designated as degenerative diseases, which ordinarily take their toll from

the same age group as cancer. When the mortality curves were plotted for age periods the curves for cancer mortality and degener ative diseases entirely paralleled each other in a straight rising curve up to 1918 the year of the in mienza epidemic. Then siter a slight drop the cancer death rate resumed its normal course whereas the death rate from degenerative diseases dropped

much further in 1918 and in 1923 was still fluctuating and had not yet reached its normal course. The drop in the mortality from crebral factor rbage and apoplety was of short duration. The drop in the death rate from organic heart disease was somewhat longer. In cases of chronic neithritis the

in the death rate from organic heart disease was somewhat longer In cases of thronic nephrits the motality still showed a reduction in 1924. The abolings therefore indicate that the death rate from abolings therefore indicate that the death rate from 1924 and 1924 are somewhat the still show that the death rate from 1924 diseases of advanced age with the exception of thronic nephrits show an almost strictly propertion are rate of increase for the twenty five year period studied.

GENERAL BACTERIAL PROTOZOAN, AND

Stewart F W and Haselbauer P Virus Neu tralization Experiments with Rosenows and Petitt a Antipoliomyelitic Sera J Exper Med 1028 X 1911 440

During the past decade three types of antipolio myelitis sera have been employ du in the treatment of acute anterior poliomyelitis. These are: (1) the sera of convolescent human poliomyelitis (2) sera from horses immunized against the streptococci supposed by Rosenow and others to be related to those causing poliomyelitis and (3) the Petiti serum prepared at the Pastery Institute. The last mentioned product is a serum from sheep or horses supposedly immunized against poliomyelitis virus by repeated intravenous injections of emilisons of spinal cords of monkers suffering from polomyelitis.

From their experiments the authors reached the following conclusions

- The Rosenow antistreptococcus poliomy elitis serum concentrated or unconcentrated does not neutralize the virus of poliomy elitis in monkeys
- 2 The Pettit antipoliomy elitis horse serum neutralizes the virus only occasionally
- 3 Immune sheep sera prepared according to the method of Petiti have not neutralized virus even when the normal sera of the same animal have effected neutralization
- 4 Such neutralizations are difficult to explain and should not be confused with the constant virus neutralizing action of both human and monkey convale cent sera
- 5 Experimental evidence affords no basis for the use of either the Rosenow or the Petiti serium in the therapy of poliomyelitis Samer Lann M D

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THE Issue on Which an Abstract of the Article Referred to May Be Found

SURGERY OF THE HEAD AND NECK

Head

Basilar fractures E F Moony Internat I Med &

Surg 1928 xli 483

A case of squamous carcinoma of the scalp associated with two rodent ulcers on the shoulder originating in a patch of psonasis E R FLINT and I GORDON Ent I Surg 1928 xv1 321

Aseptic cavernous sinus thrombosis II C Topp Arch

Otolaryn ol 1928 viii 138 [107] Primary jugular bulb thrombosis J L MAYBAUM and I B GOLDMAN Laryngoscope 1928 xxxviii, 569 [107] [107]

Tumor of the face A V CLARKE Proc Roy Soc Med Lond 1028 xxt 1852 Cancer of the face II W MEYER Am J Surg 1948

Cases illustrating maxillofacial and plastic surgery L. JOHNSON U.S. Naval M. Bull. 1918 xxvi 843 Chronic tumor like inflammations of the oral salmary glands in the light of critical analyses E Arevolt Ann ital dichir 1928 vii 840

Inflammatory tumors of the submaxillary glands E BORRA Policlin Rome 1028 xxxv sez chir 345 [107]

Eye

The literary phase of ophthalmology W II CRISP Am J Ophth 1928 x1 798 Pt sis operation according to the Shoemaker method

H W SCARLETT Am J Ophth 1928 xl 779 Pulsating exophthalmos J M WHEELER Mantic M 1928 XXXI 812

The extraction of a thorn from the orbital cavity S N KAUL Brit J Ophth 1928 xii 521

Reconstruction of contracted eye sockets | T R ANDER SON J College Surg Australasia 1928 1 120 [108] Yeay therapy as a dia nostic agent in orbital tumors K D A ALLEY Am. J Ophth 1928 21 794 11081

Congenital absence of abducts a A Willion Am J Ophth , 1028 x1 780 Paralysis and spasm of the ocular muscles and conjugate

deviation of the eyes a contribution on certain types of nystagmus L J J Muskens Rassegna internaz di lin e terap 1928 ix 641

Vertical squint of high degree in which binocular sin le vision was maintained in comparative comfo t R L WRIGHT and V G MUTHAYYA Indian M Gaz 1928 lan 281

Prevention in ophthalmology HALL. New Zealand M J 1928 XXVII 283 Diagnosis of eye ear nose and throat cond tions from

the standpoint of the doctor in general practice G J
TYCETT South M & S 1918 xc, 670
A combined ophthalmoscope retinoscope and hand

slip-lamp D S STEWART Brit J Ophth 1928 xii 519

Triple light as a practical method of perimetric illi mination L W DESCRIPE Am J Ophth 1918 m So. Changes in the fundus ocult as a definite index to arrend

disease analysis of 100 cases S A AGATSTON Arch lot. Med 1928 xln 45

Persistent hyaloid artery D Bast Am J Ophth. 1928 XI 803

The acute rise of tension following the u e of adrenzing in glaucoma S R Girrord Am J Ophth 1918 xt, 3 k

Diagnosis of inc pient chronic glaucoma R. R Goid South M & S 1928 xc 674

Glaucoma an historical review K Piscier Am J Ophth 1928 x1 789 The etiology of glaucoma W S Duke Elder Bat.

M J 1928 n 236 Ocular complications of diabetes S R Girrorn Med [169

Clin N Am 1928 zii 423 Infection of the eye N T CLARK Internat J Med & Surg 1028 xli 436 Protein therapy-specific and non specific-in ophthal

m logy A C Woods Arch Ophth 1928 lvu, 488 [110] Treatment of postoperative infection of the eve R. DENIG and J J REID JR Am J Surg 1928 v 33
Tuberculosis in relation to the eye E Hitt. South

M J 1928 xx1 607 The therapeutic use of tuberculin in ocular tuberculoss [116] A C Woods South M J 1928 xx 613 Syph litte affections of the eye M Cones Am J

Syphil s 1928 vii 517
The rôle of the arsphenamines in the production of orelar lesions L L ZIMMERMANN Arch Ophth 1928 lvn 509

The intravenous use of typho d pa atyph id vaccine in eye diseases H J Howard Am J Ophth 9 8 xi. 35 mil 685 Pi mented lesions of the conjunctiva \ \ \ M BLACK and F H HAESSLER Am J Ophth 1928 at 86 Trachoma in the State's (Alabama) health program

P D Moseman South M J 1928 x11 865 Remarks rega ding the di cussion upon the etiology and treatment of hypopyon ulcer G H. BURNHAM But J

Ophth 1928 xu 5 2 The early development of the endothelium of Descemet s mbrane the corn a and the anterior chamber of the eye [111] A HAGEDOORN Brit J Ophth 1928 21 4 9 [111] Gonorrhozal tis M L LERNER N 101k J M 1928, XXVIII 202

Lens protein-the i olation of a third (gamma) crystallin L BURKA and A C Woods Arch Ophth. 1928 12 11111 Conjunctival bridge in catara t extraction. L PATO

B t J Ophth 19 8 x11 52 A case of hæman ioma of the horoid S B Maston mi Arch Ophth 1928 l 11 484

The process of differentiation of the retinal layers in vertebrates I C MANY Brit | Ophth 1928 XII 440 [111]

Retinal behavior as influenced by the sphenoid sinus M E Brown South M I 1928 xx1 850 Four cases of glioma retine in one family T W LETCH

NORTH But M J 1928 11 656

Some phases of industrial (factory) eye surpery D M CAMPBELL J Mi bigan State M Soc 1928 ETVII 666 Evisceration with gold ball implantation W. A. Huber J Oklahoma State M Ass 1928 xx1 283

The care of children's ears during the summer H llays Med J and Rec 1918 exxviu 341 The so-called congenital aural fistula E SEIFERT

Deutsche Zischr f Chur 1928 ccix 118 Otological observations in trauma of the head a clinical study based on forty two cases W E GROVE Arch 11111 Otolaryngol 1028 vm 240 To hear or not to hear is the question F E Brows

Northwest Med 1928 xxvii 474 The etometer An in trument designed to measure accurately range and sensitivity of hearing O POPPER

Proc Roy Soc Med Lond 1928 xx1 1929 Dealened school children detection and treatment D P FOWLER and H FLETCHER I Am M Ass 1028 xc1

Marked d afened areas in normal ears EP FOWLER

Arch Otolaryngol 1928 van 151 A novel and simple method for the detection of simula tion of unilateral d afness B M BECKER Laryngoscope 1928 XXXVIII 677

A new method of determining unilateral dealness and malingering J GUTTHAN Laryngoscope 1928 XXXVIII

A case of perforation occupying almost the whole of the tympanic membrane closed by repeated application of tri bloracetic acid Cicatricial membrane still complete after ten years Sir J DUNDAS-GRANT Proc Roy Soc Met Lond 1928 EXI 1932

A case of vertigo on suction in a patient with absence of the stapes Sir J DUNDAS GRANT Proc Roy Soc Med Lond 1928 xxi 1933

A case of vertico on suction in a nationt with adhesise processes in the middle ear following scarlet fever presumably malleo-incudal ankylosis Sir J Donors Grant Proc Roy Soc Med Lond 1928 xx1 1933

The treatment of the acute middle ear F B SRAKE J hansas M Soc 1928 TRUE 391 Otitis media complications management and treatment

J T Downing Northwest Med 1928 xxvu 472 Chronic purulent otitis media combine i treatment I

D WALKER J Oklahoma State VI 435 1929 XXI 181
The utrival>endolymphatic valve T II Bast Anat Record 1929 al 61

The os ification of the labyrinthine capsule T H Bast Laryngoscope 1928 exxum 665 lunctional loss of semicircular canals with ut imput ment of cochlea I A MILLER Ohio State M J 1928

Alterations of hearing and familial hereditary degenera tion of the macula S TRANA Policia Rome 1918

stav sez prat 1511 A case of sudden bilateral destructs n f cochlear and vestibular senses of non specific origin T \ CLARKE line Roy Soc Med Lond 1928 xx1 1926

Skiagrams of the petrous bone used in diagnosis D Mckexie Proc Roy Soc Med Lond, 1918 xxi 1933

A flurry in mastoid L R Effler Laryngoscope 1928 XXXXIII 671

The diagnosis of operative acute mastoiditis E D The histepathology of mastoiditis J I STEWART Proc Roy Soc Med Lond 1928 EX 1743

Acute purulent mastoiditis S Coney Penn M I 1028 XXXII S

Mastorditis in infants R Moore Texas State J M 1018 XXIV 400 Case report bilateral suppurative mastorditis without

physical indings of middle ear or mastoid disease B WELT N York State J M 1928 xxviii 2011 Obscure mastoid infection in infants as a cause of nu

tritional gastro intestinal disturbances L D HILL, JR Texas State J M 1928 xxiv 397 Two cases of acute mastoiditis associated with facial

paralysis and sinus thrombosis. A L Bass Kentucky M J 1928 XX11 505 Double acute mastoiditis the post perative symptoms of which simulated lateral sinus thrombo is H N BARNETT

Proc Roy Soc Med Lond 1928 4x1 1927 Mastoid surgery in childhood D GUTHRIE J Laryn

go! and Otol 1928 xin: 713 A plastic procedure in the master l operation W H B MAGALRAN Brit M J 1929 H 699

The use of temporal muscle grafts in mastoid operations H KISCH Proc Roy Soc Med Lond 1918 XXI 1911

Nose and Sinuses

A new technique for pasal plastic operations I D KELLY Arch Otolaryngol 1928 vin 433

Replacement of the tip of the nose with a pad from a toe H KURTZARY Deutsche Ztschr f Chir 1028 cent Operative correction of cartilaginous portions of the pose

A RETH Ztschr f Hals Nasen u Ohrenheilk 1028 xvm 515 523 Rhinoplasty and other plastic operations on the face

with an appendix on plastic operations on the breast. I JOSEPH 1918 Leipzi, Kabitzsch Lower nasal deflection a new operation for its correct

tion 5 Cosen Arch Otolaryngol 1018 viii 300 Rhinoscleroma F A Figi and L Thompson J M Ass 1928 xc1 637

[113] Observations on the Gram negative cocci of the naso pharyny with a description of neisseria pharyngis G S Wilson and M M Surrii J Path & Bacteriol 1928

A cyst like cavity in the nasopharyna F W HAGENS Arch Otolaryngol 1928 vin 420

Paranasal sinus infection in infants and children S M Morwitz Illinois M J 1928 liv 317
A simplified method for \ ray studies of the accessory

nasal sinuses H C Tono Larynosc pe 10 9 xxxviii Modern \ ray technique for examination of the acce

sory sinuses] M MARTIN Texas State J M 1028 XXIV 406 Acute suppurate n in the accessory sinuses cavernous

sinus thrombosis acute leptomenin, itis death autopsy I TURNER and F E REVOLDS J Laryngol & Otol 1918 xlux, 575 [113]
Surgery of the accessory sinuses W L GATEWOOD 11131

Virginia W Month 1928 lv 430

Recent observations on hyperpla tic spheno-ethmoiditis I LFJEUNE South M I 1928 xxi 847 Chronic ethmoiditis R H SERLERN Brit M J 1928 11 562 [113]

The conservative and surgical treatment of chronic ethmoiditi W Howarth Brit M J 1928 ii 565 [113] A contribution on ethmoidal ch ndromata I Barco Riforms med 1929 alty 1019

The diagnosis and treatment of maxillary sinusitis C 5 McGivers J Med Soc N Jersey 19 8 TEV 612

Mouth

The operation for congenital cleft palate by numerous mobilizations L Eignory and K Helenary Beats z klin Chir 1928 celin 200

Diseases of the mouth S V MEAD J Lab & Clin Med to 8 xiv to Atlas and introduction to deformities of the 12w and teeth E HERnsr and M AFFREISTARDT 1928 Munich

Bergmann Roentgenological studies of displaced canine teeth 1 ROTRER Deutsche zahnaerzt! Wchosche 1928 xxx1

The relation of pathology to dentistry H T LARVSER. U S Naval M Bull 1925 xxv1 797 Dental infection and treatment of children L Sr \

WELCH Med I Justralia to S n 454 The need for an embracing scheme of dental service in the broad plan of child development L W HARNE

Med J Australia 1028 it 450 The prevention of dental caries 1 J TURNER Med J

Australia 1928 it 457 Regional anasthesia and innervation of the teeth D STEWART and S L WILSON Lancet 1929 CCTV Bog

The question of the etiology of paradental disease based on clinical study C. KURULTES Zahnaerztl Rundschau 1029 XXXVII. S20 The etiology and pathogenesis of paradento is L

Schwart Deutsche Zischr i Zahnheilk 028 xlvi 513 Diseases of the spical paradentium The action of med cinal agents on the paradentium F I ETLER I ortschr d Zahnheilk 19 8 1v 383 Paradental pyorthosa and alveolar atrophy B Gorr

ttrn Fortschr d Zahnheill 1924 iv 309 Gingivitis II R A KEILTY] Lab & Clin Med 1928

Hypertrophy of the gums R J Mc \ELL Love Brit J Surg 1028 tvi 315

Pharynx

The bacteriological examination of the tonsils in special cases R B LUNDOEN J Laryngol and Otol 1925 thus

The relationship of tonsillar infection to eczema in children D M Siplick Med J and Rec 1929 cxxv if

A blind peritonsillar ab cess resulting in death from general peritonitis d'scovered post mortem F T HILL

Arch Ot laryrgol 1928 vin 446
The efficacy of tons liectomy for the remov 1 of focal nfection P S Ritoans and G F Dick J Im M Ass

1928 xc: 1149
The effect of tonsillectomy on existing card c disease to adults W B FARNUM Am J Med S 1928 chart

Temporary ligation of the common carotid artery for hamorrhage following tonsillectomy A H HOTHANY Zentralbl f Chir 1928 lv 1292

Methods of estimating the liability to postoperati e hemorrhage from unsutured wounds (follows g tons l lectomy) \ L largs Proc Roy Soc Med Lond [114] 1928 XXI 1784

Neck

C) sts and methan fistuly of the neck. A Micuria Sperimentale 1928 Ixxxii 455
Congenital median fistula of the neck L De Mikro

Arch ital dichir 19 8 xxii qu Branchial cysts L E Sharreek Proc Roy Son Med Lond 1918 xx 1864 Carotid body tumor J F H Roberts Proc Roy Soc Med Lond 1928 xxx 1863

Caroti I body tumor L E SHAPPECE Proc Ray Sec. Med Lond 1928 AV 1861 The physiology of the thyroid and blood formation

G KEYTZLER and P GEREB Cyógy ászat, 191 livn, 5 Thyroiditis W O Jourson Lentucky M J to 8 XX11 531

Gotter J W SHUMAN Med I and Rec 1918 extra

Statistical contribution on goiter II The thyro depart and gotter susceptibility C R Prister Schweiz mei. Wehnschr 1928 lyn 407

Clinical observations on certain goiter problems E BIRCHER Schweiz med Wehnschr 1028 hm, 5 7 The present status of the gotter question R pr Just

LIN DE JONG Ceneral bladen 1928 xxv1 87 Report of the international gotter conference at him Aug 24 6 1927 Swiss Gotter Commission 19 3 Ber

Huber The treatment of goster A McGLAN AN VIPTING M Month 1928 lv 475

Hot water injections for go ter E Mosta Beitr klin Chir 1929 cxlin 753
Goster and sodine B BRESTVER Ergebn d Chir is

Orth p 1028 xx1 65 Biochemistry and geochemistry of lodine G Levit

Northwest Med 928 xxvil 4 9 Hyperthyroidism without visible or palpable 8 stor J Teeser Am J Med Sc 1928 chryi 504 Diabetes and hyperthyroids m F P Joseph and F H LAMEY Am J Med Sc 1928 clares 1

Indine in hyperiny roidism A S Jackson J Michigan State M So 19 8 xxvn 645 Thyrototicosis and indicanuria L Rogers Brit M

928 11 744 Morphological and staining chan ea in there I ti sees it Basedow's disease followin sodine F Payerce Cases lék česk 028 lxvii 600

Carcinoma of the thy road gland H M MORAN Med I Au tralia 1028 is a f Pre-operative and postoperative treatment of thyroid pati ats Enginann Med kin 1928 v tv 19

N tr us or de and orygen anesthesia i e gottet open tions J L DeCourev J Med Cincinnau 19 in

S lects e angesthesia for toxic goster cases W I H W Anes and Anal 928 vii 291

A ca e of strumer tomy in a newborn infant W HRIEN BACHER Zentr Ibl f Cho 1928 ly 151

One hundred and fifty consecutive thyroidectomics without a death I Kaspan Wien Llin Webnischt 1925,

The pre enti n of experimental exidates by the para thyro d horm ne (Loll p) H Gold Ar h lat Med 1928 la 576

Stenos s of the i ryn difficult intubation and their te tm at with Bru temana scanula L Vulovie Sent arch f d ges Med q cix 053 Intrass cance of the la vax operated upon through a

aryn hasure Six St C. Phonson Proc Roy Soc Med

Lond 1928 xx: 1792

SURGERY OF THE NERVOUS SYSTLM

Brain and Its Coverings Cranial Nerves

Traumatic lesions of the head and their relation to the ophthalmologic to W. P. PAGLETON J. Med. Soc. N. Jersey 1928 xxv 567

1 study of cerubral concussion I. Disturbance of the

hydrogen in concentration in the ceretros nat fluit following experimental concussion R VARA LOFEZ Arch

f kin Chr 19 ° cl 111 I'm piles of treatment in acute cranial injuries F D Sparkow South M & S 192 xe 665 Open or closed treatment of wounds of the brain? F

Drumer Zentralbl f Chir 1928 lv 1410
| Bloolle a field for trephination | F box | Zentralbl | Chir 1928 lv 1107

The progn sis of craniocerebral injuries J J Moren kentucky M J 10 8 xxvi 520

Transmatic epilepsy after a guashot wound of the head WW Warstarre Lane t 1918 ccxv 861
Malaria t eatment of e ential epilepsy BR Irias

Rassegna internaz di clin e terap 1929 in 673
The question of the operative treatment of epilepsy E
Melever B itr z klin Chir 1928 cvlii 5%

Cereb alcomplications and diseas sin the fell of otology and shootly O Chelschulen Folia oto laryngol it 2 Internat Zentralbi i Ohrenbeilk u Rhino Laryngol 10 8 xux i

The treatment of chronic cerebral hypertension O Markow, Rassegna internax di clin e terap 1928 ix 618

The treatment of re piratory paralysis in cases of cerebral compression G V Berres Hosp Ted 1928 but 367 Ventriculography Reale Riforma med 1928 xliv

A case of spherical bulging of the flor f the third ven tricle se ondury to internal hydrocephalus and simulating

a pituitary tumor R G Brown J Laryn ol and Otol 1918 alui 728 Cas t norts of some disca ed conditions of the brain

A Brency South M & 5 1928 xc 680
Atteriovenous ancuri m of the brain W F Danny
Arch Surg 1928 xxxx 1900 (117)

The 10 stion of encephalitis and its sequelæ G SCHALT ENRAND Deutsche Zisch f Chie 1928 cir 246 Cerebellarab cess W Innorson 1 for Koy Soc Med Lon! 1928 xx1 1939

1 case of cerebellar abs ess C 1 Bover Canadian

Brain abs ess of the temporosphen adal lobe and cere bellum with comments on cases oper ted up n J B Porrs \ bra ka State M J 1928 vin 361
The application of my morphical and loss than the state of th

The application of my morphological studies to the physion, and path logy of the messagephal in L. Castalini Rassegni internal dictin e terap 9.28 ix 303. Calliful in on the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the castalinia and the large roof castled as of the cast large roof castled as of the castled as of the cast large roof castled as of the castl

Critical non the ure ry of cysticer us of the cerebrum and furth ventrale. Williams. Dutsche Zischr I Chir 1928 cers 104 Tumns of the lan their symptomatology diamness.

and treatment as I a et on personal ob ervate n. Ld. a.
L. I LUSEPP 028 Tarin Fruerer
Two brain tum a. J. I. P. c. Proc. Roj. Soc. Med.

Lond 1975 xx 1864

The land n e of intercranial tumors without chiled look in one sears e res of cases W. P. Lav Wageney Am. J. M. Sc. 1928 claxis 346

[118]

The significance of petrous ridge determation in the roentgen ray diamosis and localization of brain tumors II K PANCOIST Am J Roentgenol 1928 xx 201 [119]

On recovery from symptoms of intracranial tumor C O Hawridgase Birt M J 1929 is 639 Hæmangionnata of cerebellium and retina (I indau s disease) with the report of a case H CUSHING and P

disease) with the report of a case H CUSHING and P Battery Arch Ophth 1928 by 447 [119]
A case of glooma (embry onal neurocytoma) of the brain

smulatin, pituitary tumor h G Pandalai and T B Menov Indian M Gaz 1918 luu 579 Roentgen irradiation of brain tumors Rahin and Haipanin Z nira'th i Chu 1928 lu 15 8

Heiprich Z pira'ld f Chu 1928 lv 15 8
Some considerations on the surgi al treatment of cere
bral tumors V Christiansev Rassegna internaz di clin

bral tumors V Christiansev Rassegna internaz di clin e terap 1928 ix 5 4 Recent experien es of intracramal surgery V M Dorr

Recent experien es of intracramal surgery N M Dorr Edinburgh M J 1929 xxxv 182 The route of absorption of the active prin iples of the

posterior hypophyseal tobe A. J. McJean. Find crinology, 1938, xm, 467 [129] Acromes, Alia. J. R. Thoma. U. S. Naval. M. Bull.

1928 xxv1 927
Studi s upon the rocity nological castrition of the hypophysis P Drt Buono I adiol med 19 8 xv 828
The results of replacement therapy in an hypophy

the resours of replacement therapy in an hypophy sectomized pupp, four in inthis of freatment with daily pituitary heterotransplants

I REICHERT Indo rinology 1928 xii 451
Chroni cystic arachnoiditis a linical study R G

SPURITIO South W J 1928 xt 804
Pneumococcal meningitis C R CROFT Lancet 1928

The primidal sinus as a route of infe tion in a case of staphyl coccus in nunctus W RIPLEY and D C Thour

so: Am J Dis Child 19 8 xxx1 785
A new instrument to fa ditate puncture of the gasserian ganglion (ganglionpunktator) Il Eurenezio Zentralbi

I Chir 928 lv 1293
A new method of approach to the third branch of the
trigeminal nerve f M Ingen Zentralbl f Chir 1928 ly

Trichlorethylene treatment of trigeminal neuralbia I

Veuroblastoma G W Houses and R Dresser J Am W 18s 1918 xc1 1246

Spinal Cord and Its Coverings

Remo al of a lumbar puncture needle after it had been present in the vertebral canal for one year Z Octobina Z 21ra'ul f Chir 1918 by 1807 Operation or corrective measures for scoliotic pres ure

Operation or corrective measures for scoliotic pres ure on the cord? \ f EHE\BECHFR. Zentralbl f Chir 1928 ly 1656

Medullary compression due to deforming spondylitis K II Kenne Rassegna internaz di clin e terap 1018 10 007 Myelopuncture and eni myel graphy L Prissepp

Wyelopuncture and eni myel graphy L Pilsfpe Ra segna internaa di ni terap 100° ix 6 o tel ni al and pathological tidy of two teratomatous cysts of the spinal cord containing mucus and elibated cells 15 Kubir and 1 Filtron Surg Gynec & Obst 1028

The spinal fluid in tropical syph hs R. P Passons

U S Naval Vf Bull 1925 xxvi q16

The clinical value of the spinal fluid test of Takata and Ara B L Monras J Lab & Clin Med 1028 xiv 67 My cloment, ocele spinal meningocele Deutsche Zischr f Chir 1928 ctix 74. I TOMESEL

Anterior sacral meninhocele R Denet Deutsche Ztschr f Chir 1928 ceix 90

Peripheral Nerves

A histological and experimental study of the mode of action of injection therapy in neural, is and a study of needle prick injuries to nerves L. FRANKENTHAL, Beitt 2 lin Chir 1928 cdui 237

Posterior root section for the relief of pain TI C MEN MINGER | Kansas M Soc 1029 XXIX 124

Sympathetic Nerves

The veretative nerves and lipoids S Weiss and B

PAUL Zischr I d ges exper Med 1928 lx 702 Tumors of the autonomic nervous system M R Rem \nn Surg 1928 lttx-pp 516

J1211 Neurosurgery of the vegetative nervous system (McCLINTIC J Mi higan State M Soc 1928 xxvii 636 Resection of the thoracic sympathetic trunk and of the plenic nerve in the posterio inferior mediastinal space F Rosst Arch ital dichet 1924 xtl 729

Ramisectomy for spastic paralysis W Length Beitr z klin Chir 1928 cxlui, 118

Sympathetic trunk section a new operation for Ray naud's disease and spastic paralysis of the upper limb

N D Royez Med J Australia 1928 is 436

Cardiac hypertrophy following sympathectomy is FREY Verhandl d deutsch Gesellsch i mn Med 19

PP 142 147 The end results of periarterial sympathectomy G ? MULLER Ann Surg 1928 Ixxxviii 474

Miscellaneous

Further investigation of the special sense-organs M A GOLDSTEIN Laryngoscope 1928 xxxvii, 633 The cerebrospinal fluid in infants and in children. A LEVY-SOV Am J Dis Child 19 8 xxxv, 799 Device for facilitating use of fine gau e lumbar pur-ture needles L. F. Sisse. J. Am. M. Ass. 1918 no. 1189. The inheritance of migraine. W. Allay. Arch. Int.

Med 1928 xlii 590 Prolonged treatment to neurosyphilis. H. C. Sotoway

and A BERK Am J Syphilis 1928 xii 445 Clinical results from the use of bismarsen in tabes do salts N Tobias. Am J Syphilis xu 536
A sacral neuro-epithelial tumor of fetal origin W

SLEMAN J Path & Bacteriol 1928 XXX 917

SURGERY OF THE CHEST

Chest Wall and Breast

The effect of lateral posture in the examination of the chest H W Dava. New England J Med 1928 excur Cunshot wound of the chest L G Jacob Brat M J 1928 H 748

Hemangioma of the chest wall H H M Lyte Ann Surg. 1928 Ivexu 669 Mastodynus M Sautet Zentralbl f Gynaek 1928

In 1267 An operate a for gynecomastia and pendulous breast II KURTZAHN Deutsche Zts hr f Chir 1928 ceix 401

Cavernous hæmangroma of the breast II O NEUMANN Zentralbl f Gynack lu 1957 Adenocarcinoma of the right breast removed us 1013 and later again from the same breast in 1927 R H Dung

Med rev 1028 vlv 40 Local infiltration anaesthesia f r operations for breast earchigns A W Wischnewsky Zentralbl f Chir

1028 by 1475

Trachen Lungs and Pleura

Handbook of special p thology Vol III Air pa sages and lungs I HENKE and O LUBERSCH 19 8 Berl a Springer Foreign bods sin the air and food pass ges A K Hoor

South VI J 1928 ta 811 Foreign bod es in the air passages J C Braswell J Oklahoma State M Ass 1928 XII 279
A non-opaque fore gn body in the bronch s

BULLITY California & West Med 1928 The 62 The sequelæ of a foreign body in the thorax a rubber crusin, pulmonary hamo rhage and cerebral embolism J Divis Cas p l k cesk 1928 kwn 677

The mecha ism of massive collapse of th lung P RIEBEL. Med J and Rec 1928 EXXVIII 321

Bronchial aspiration and irrigation H L Srift Med Cincinnati 1928 ix 372 Peroral endoscopy as an aid to the doctor in gracul practice L II CLERY South, M & S 1928 xc 653

Problems in bron hoscopy and asophagoscopy G W Boor Ann Otol Rhinol & Laryngol 1928 2120 Bronchomonulusus report of a case from Porto Rice W R GALBREATH and C WEISS Arch Int Med 1915

xl1: 500 The treatment of dysphagia in tuberculosis of the apper air passages report based on 100 cases H P corret Arch Otolaryn, ol 1028 viii 424

Artificial pneumothorax with high intrapleural pressure in patients with pleural adhesions R W DONELL Illunois M J 1928 liv 267

Preliminary experiences with phrenico exercis J Gravesen Ugesk I Laeger 1928 at 333 Rational usa e of the postoperati e paralysis of the apparagm following phrenico-exercisis W Einis Zischr f Tuberk 1928 1 325

Comp ession tamponade. HAUSE Zentralbl I Chu

928 ly 1559 phrenicotomy and thoracoplasty in Pn umothora advanced tuberculosis C Exerson Nebraska State M

1928 to 367
Ab cess of the lung experimental studies in chr n city Ab cess of the lung experimental studies I hm M As I F Westlery and I G Herryany J hm M As

I ung absress foll wan tonsillectomy from the standpoint of the bronchoscopust L H CLERY Atlantic M J 101 Pha es of the eti l gy and treatment of abscess of the lung. F B BERRY Rhode Island M J 1928, 21

The requites fir healing of experimental lung ab-s ess C M VAN ALLEN Deutsche Zischr f Chir 19 8

c IX I

The study of a case of bronchohenatic fistula with ment genoscopic observations J M FLYNN and S L WARREN Am I Poentrenol 1928 xx 354

Clinical observations on bronchiectasia C E Wood ING I Med Cincinnati 1928 ix 371 Fusospirochatal pulmonary gangrene II P D NB

Radiology 1928 x1 333

A clinical and surgical contribution on bronchial car cinoma G Wolfson's Arch f klin Chir 1928 cl 156 Primary carcinoma of the bronchi LER A SCHALL

Ann Otol Rhinol & Laryngol 1928 xxxvii 762 11231 A case of primary carcinoma of the broachus with secondary bronchic ctasis death following phrenic evuision M DAVIDSON and R C B LESLIE Brit J Surg 1028

The etiology of primary lung carcinoma an experimental and clinical investigati n R E Surris I Canvet Research 1928 xu 134 A case of ham rrhanc pleurisy G Dass Indian M

Gaz 1928 Iznt 581

Emprems Brit M J 1928 1, 749 The diagnosis and trestment of empyerus Lancet 19 8

ccry \$61 Sudden death from air embolism during treatment for

leural empyema V Zánorsky Časop lék česk 1928 The surgical treatment of tuberculous pleural empyema

F Melchion Zischr f Tuberk 1928 1 321 The surgical treatment of tuberculosis pyopneumothorax Il HAULE Ztschr f Tuberk 1928 | 304

Heart and Pericardium

Back pain in static-dynamic decompensation and its treatment M Ignorany Wien klin Wchnschr 1928

Extracardiac operative procedures for the relief of in suffici ney W FELTY Muenchen med Wehnschr 1928 Itay Str

Esophagus and Mediastinum

Congenital atresia of the cesophagus F BRANDT Med

rev 1927 alsv 661 Diathermy in structures of the resorbagus M Sorres

TING Riforma med 1928 xliv 1044 Removal of the endless thread in osophageal stricture

with the help of the operating cystoscope 1 H ZAMIER Zentralbi f Chir 1928 ly 944 Remo al of the erdless thread in asophageal structure

L LURZ Zentralbl f Chu 1928 lv 085 (Fsophaget stenosis K ROBERTS and D S D JESSUP

Surg Clin N Att. 1928 VIII 1057

Knottin, of a sound u ed for exophageal dilatation A Jank Zentralbl f Chir 1928 lv 2289 Sur_ical treatment of pharyngest and exerphageat di verticula report of a case C C KENNEDY Minnesota

Med 1928 x1 669 Syphilis of the esophigus A L ABEL Lancet 1928

CCT1 441 The diagnosis and treatment of enlarged thymu by \ ray F W O BROK! N W England I Med 1928

ex 1x 657 Fatal traches obstruction due to an inflamed thymus gland J C Hamilton Brit M J 1928 u 748 Status thymicolymphaticus A HYMANSON Arch

Pediat 1028 No 502 Report on a case of lymphosarcoma of thymic onlin with acute lymphoid leukæma G J Vous c and J F Spalping J Ned Soc v Jersey 1928 xxv 609

Miscellaneous

The excursion of the costal margins and of the costal arch following phrenic neurectomy W S LERON Min nesota Med 10 8 x1 6 5

1 new instrumentarium for operative thoracoscopy II MAENDL and F KOR! ITZER Wien klin Wchnschr 1027 xl 1285

SURGERY OF THE ABDOMEN

Abdominal Wall and Peritoneum

*erve-dividing abdominal inci ions A NUSSBALM Beitr z klin Chir 1928 czlui 50 Considerati as of the two and three layered suture of midline abdominal incisions | LIRSCHNER and MELEVER Deuts he Zts hr f Chir 1927 cc Ato

A sil er wire net bealed in place DREWITZ Zentralbl f Chir 1028 ly 1434 Strangulated incisional herma II Barney Lancet

1928 CCD 812

The conservative treatment of umbilical berms in the infant and young child II WEIL Deutsche med Wehnschr 1928 li 9 0

Herpia en H (doubl lost f bowel in the sac) VI Bordioscial Zentralbi f Chir 10 8 lv 1348 Inguinal hernix containing fallopian tube and & DELFRAT California & West Med 1928 Trit

250 Sew prin ipl s and procedures in heroia repair A R hoc vrz Texas state J M 1928 xxiv 259 [124] (124) The treatment of herma by subcutaneous injection I

Mates Med J and Rec 1928 extent 415 an enormous gumma of the abdominal wall imulating are intra abd minal tumor. A STRIN and O HENSEL. Muenchen med W huschr 1928 lxxv 568

A case of guantic pr peritoneal cost in the anterior ab dominal wall. L. Utterstroem and H. Bergstrand Upsala Lackarel Foeth 19 8 xxxiv 403

Paraffinoma of the peritoneum Also a contribution on foreign body tuberculosi of the peritoneum Il Stringt Deutsche Ztschr f Chir 1928 ccar 31

I seudomyxoma peritonel from the appendix J Mals LUND Upsala Lackarel Foeth 1928 XXXV I

Studies of the function of the great omentum and per-toneum II in experimental contribution omental ex-tract W Goldschotter and W Schloss irch f kin 4hr 10 3 cl 332 Torsion of the great omentum W STEWART Brit

1929 11 701 The clinical aspect of con enital mesenteric malforma tion in children G F Waton Iroc Roy Soc Med Lond 19 8 EST 171

Gastro Intestinal Tract

Foreign bods s in the alimentary tract C Gilstola Bit M J 1928 11 700

[124]

Emotional influence upon the gastro-intestinal tract 11 F Rigges California & West Med 1928 xxiv 221 Agastria W Livinger Beitr z klim Chir 1927 cel 325 311

Malpositi in of the stomach and bowel. S Brown J Am M iss 1938 vc. 1184 I until mal nervous shortders of the stomach and intes times R S Bolles Penn M J 1938 xxxii, 20 A douche and shower and specul cabinet for gastro-

intestinal tubes. M. Erinory, J. Lab. & Clin. Med. 1928 nv 64. The chromoscopic fun tional test of th. stomach with neutral red. S. Karral, Arch. f. Verdaum, skrankh.

peutral red S KARTAL, Arch f Verdauum, skrankh 1913 vliu 180 Functional dyspepsia D M Vissov Vianesota Med

1928 xt 66c
The effect of the roentgen rays on the mastric secretion of dogs after exposure of the lower abdomen T LAMAMOTO

anik lubras Jap J Oost & Gynec 1928 21 203 Regional analysis of the stomach contents a comparison of the carcha, and pyloric turves \ J Krysella Med J Australia 1928 if 430

Acute idiopathic dilatation of the stomach F Grinny But M J 1928 u, 655 Chemical findings in the blood of the dog after temporary

obstruction of the pylorus R L Hapey and T G Orr J Exper Med 1918 thru 1911 Pylorospasm and pylorus stenosus in infancy F G HUMMELL J Med Soc N Jersey 1918 xxv 619

The operative treatment of pylorospasin in infants H von Willebrand leta paediat 1918 vii Supp 2 27 Division of the vogi for pylorospasin Churles H

UANO Ann Surg 1928 IXXVIII, 600 Congenital pyloric stenosis S Moyran Acta paediat

1928 At Supp 2 16
Hypertroph pylone stenosis in infants. The anatomical result of pylorotomy in a patient treated and cured three months previously. I France and L Lessé Bull et mém Soc nat de chir. 1928 It 1950.

Congenital hypertrophic stenosis of the pylorus 1 R
ROZAR J Med Ass Georgia 19 3 xvii 467
The I redet Ramstedt operation for c agenital pylorus

The I redet Ramstedt operation for c ngenital pyloti stenosis M B CLOPTON and A F HARTHANN Surg Gynec & Obst 1928 xlvii 527

The clinical and roentgen picture of chronic gastraphlerman Guerro Zentralbi f Chir 1938 Iv 1562 The objective basis for the neurogenic theory of gastric ul er I TOLLAK. Zentralbi f Chir 1938 Iv 1310 Sey differences in gastra and duodenal ulcer K Hur

TER Wien kim Wehnschr 1928 xii 659
Pyloric achalasia and p pticulcer 1, Martin and 1 (2)
BURDEN Ann Surg 1928 Exxviii 505 [125]

BLEDEN Ann Surg 1928 Extrem 505 125 Case of pylor ulcer at the point of perforation B Octros Policin Rome 1928 xvvv sez prat 1490 Treatment of the patient with peptic ulcer W R GRAHAW Virginia M Vonth 1928 1 489

On the presence of mycelium in gastric ulcer O Big TOLE Sperimentale 1928 let it 421 The radical operative cure of gastric and duodenal ulcer

A A Ber Sing Clin N Am 1928 vin 1107
Cases of gastri papilloma D Markó Magy Roentgen
kogal 1928 u 186

Koeri 1930 ll 150 de langes due to pepti digestion and their relation to gastric carcinoma F Berenver Veroeff a d Kriegs u Konst tutionspathol 19 7 19 1 Carcinoma of the stomach A. J Wilson Lan et 19 8

Pylo to extensiona with the clinic 1 picture of ileus E.

HAIL. Zentralbl f Chir 19 % by 1616

Juvenile eartin ma of the stomach C. G. CARRANZA

and L FERRARI Rev del circulo m d de Córdoba 1927

Lancer of the stoma h in patients over seventy years of ag J S Horsley Ann Surg 19 8 [XXXVIII, 524 [125] Carcinoma and ul er of the stomach. E. M. Estri. Canadian VI. Ass. J. 1928 203. 14 Castro-enterostomy with a transverse j. junil m. o. preluminary clinical report. T. S. Mor E. Surg. Grap. &

Obst 1935 zlyn 383 | 126 Gastri resection hypodermoclysis gas gangree co O Hitogypettor Zentralbi | Chir 1938 | 1 10 9 Recurring ulcers following partial gastrectomy PC Burroux Ann Surg 1928 [Verwir 543 | [17]

Traumatic subcutaneous prolapse of the incluse British Zentralbl I Chir 1928 by 1459

Traumatic subcutaneous prolapse of the intestine.

"EBER Zentralbl f Chir 1928 lv 174

Intra intestinal pressure in obstruction. I C. On its

Arch Surg 1928 xvn 507
An unusual case of intestinal obstruction If Human

An unusual case of intestinal obstruction II Human Brit J Sun, 1928 vv., 340 Intestinal tuberculosis causing obstruction J R B

Branch Arch Song 1928 xxu 410
Late intestinal steaders following staneulated berea
L Grysbergo and D Kerry Ann Sur 1928 income
20
Lxperimental studies in intestinal of struction and in

testinal tourimias C A Dragstedt Northwat Mod 1928 xxvu 409 [119]
Intestinal (protein) intoucation III Treatment II.)

Burile Med J and Rec 1918 cxxviii 386

Yatren treatment of americans C Parpillan

I oliclin Rome 1918 xxxv sez prat 1492

End-end to side anastomosis A. V. L'ARTIELLO Im J. Surg 1928 v 378

A case of non rotation of the mid gut J. W. Thouses

Brit J Surg 1928 vvi 332 Intest nal obstruction in infant A Soute Med J and Rec 1928 ctvvii 343 Intussusception H W Cave Am J Surg 1928 v

Intussusception H W Cave Am J Surg 1924, 409
Chronic intussusception J F La gooy Vebrashs

Chronic infussusception J I Li GDOV tousing the M J 1928 xui 375
Intussus ception following p sterior gastro-entensions
J Losert Beitr z klin Chir 1927 cxl 308

Concentral atrests of the small bowel E Biscrita Zentralbl f Chr 1923 lv 1543 Rare etiolowy for ilcus G Gold Zentralbl. I Chr

Rare etiolomy for ileus G Gold Zentralbi. I Con-1928 lv 1426 Spastic ileus in lune embolism K Hente Zentralbi

f Chir 1928 by 1094
Gall stone ileus O A Orson Minn sota Med 19 5

To 03

The formation of true stones of the small board. H.
Barri Ar h 1 path Anat 1928 ccircus, 716

Simple ulter of the small bowl p frotation atroph of the small bowl p frotation atroph of the spicen as an ac es ory find n H Sentellies V i k Mag I Laege idensk 1928 lever 240 Peri at n of the small bowl C B Period Med Clip N Am 19 % xil 509

The dilat d duodenum. J E Dunner ton Sulf 928 lv viii 5,6

1928 It will 5,6
A case of fo eign body impacted at the duodenojejutal
fe ure J E Hanne Am J Roent end 1928 tx 30
Th installati n of 2 per cent hydrochloric and into the

duoden m a a diagnosti test fix dood ast ul er K. Grevere M Perrakoow et and J Texres er P has gar lek 19 8 via 5. Perforated d od nal ulcer simulating acute appendictis K C I Padouz Brit M J 1928 u 699 and of

Results of the operat e catment of duodenal ul ets in a senes of cases J A Maclarian Canadian C 4.1 Surgical indications and end results of operation for duodonal ulcer H A Gamble South M J 1928 vo.

The effects of injections of acid and frauma on jejural

The effects of injections of acid and trauma on jejunal transplants to the stomach W J GVILAGIER Arch Surg 1928 viv 279 [129]
I ostoperative jejunal ulcers N Allen Am J

Surg 1928 v 128
A temarkable ileal diverticulum J P McMurariculan I f Tisbutt Anat Rec 1928 xxxiv 325 [139]

Inversion of a tumor of Meckel's diverticulum in a diuble ileocreal intussusception. Il B Eisberg. Am J Surg. 1918 v. 401 Measures for stimulating peristalsis. It Vocel. Ergebn

d Chir u Orthop 1928 71 165
Remarks on constinution 1 E Cornwall Med J

and Rec 1928 exxviii 328

The transport mechanism of the alimentary tract and its significance in constipation and other intestinal d s turbances C F McCervice J Oklahoma State M 185 1028 xti 200

The question of left sided position of the col n B A O TROUGHOW and A N KREWER Deutsche Ztsche f Chir 1928 ccix 124

Chir 1928 ceix 124

Flushing of the colon in ul erative colitis M FixHorn

Med J and Rec 1928 exxviii 377
Simple non-specific ulcer of the colon M E Barron
Arch Surg 1928 xvii 355 [130]

Polyposis of the large intestine J F CHAPMAN Am J Roentgenol 1928 xx 115 [139]

Multiple polyposis of the colon II F HULLSIEK Surg Gynec & Obst 10 8 Rhin 346 [131] Carcinoma of the large intestine including the rectum

I VELL Illinois M J 1928 iv 263
Roentgenology of the colon J W LARIMORF Am J
Roentgenol 1928 xx 191
[131]

Rocingenol 1928 vs 101

Car ocar al strangulation with helminthiasis and carrier
mobile C Haebler Zentralbl f Chir 1918 lv
1603

Postoperative volvulus of the execum H M Nelson Im J Surg. 1928 v 193

In unusually rare instance of congental absence of the appendix Coinci lence of acute 55 mptoms of appendiceal instanmation in these congenital ases Z MAURER Pol La gaz lel. 197 vi 155

Diverticul sis of the vermif rm appendix G T Pack and I Scharnager, Am J Surg 1928 v 369

The pseudo appendicular syndrome I Tonelli

loikin Rome 928 xxxx s 2 prat 148,

The differential dia n stic con iderations in case of

u pected appendicitis O BARLMER and H I DEL
MAN Zentraful f Chir 19 % 1 1671
The leurocyte count in the different lavers of the wall of

Line reviewing to the different layers of the wall of the appendix and its significance. K. Luhmann. Arch f. Lin. Chr. 1978 cli. 107. The leucocyte count in acute appendictis. C. A. Her.

wir J Kan as 11 Soc 1928 xxx 330
Trauma as a factor in acute appendicitis 1 H Bi SFLL

Arch Surg 1928 XVII 6 2

The possility of contage in appendicitis Foxto and Ritter Schweiz med Wichnschr 1928 IVI 59

Leute appendicitis C Logars Am J Surg 1928 v

335 App n in the in children P I Hirstey Med J Aus tralia, 1028 is 503 Ruptured append a nnt appendiced absence a research

Ruptured append van Jappendiceal abscess a review of nuncts two ca s II C Miller Wisconsin VI J 19 8 av 11 449

Appendicates rupture with special reference to drainage

The treatment of perforative appendicits with or with out abscess B C WILLIS South M J 1928 vt 672

Acute gangrenous appendicitis peritoneal sepsis with hyperpyreua recovery W MEXER Am J Surg 1928 v

329
Gangrenous appendicatis in a nonagenarian J \ BERRY
Lancet 1028 ccrv 812

Appendicitis and measles A Fiscings Zentralbl f Chir 1928 lv 1546

Rare complications of acute appendicitis R K SMITH Brit M J 1928 in 339 (132 Chronic appendicitis H M HAYTER Virginia M Minth 1928 b. 487

Chronic appendictis R. Smith Ann Surg 1928

Diagnosis of chronic appendicitis G \ Beente J Missouri State M Ass 1928 xxv 4/9

Medical aspects of chronic appendicitis A F R AN DRESEN Am J Surg 1928 v 377 Calcification and ossification in di eased appendices R

V Lazarević Zentralbl f Chir 1928 lv 1877

Case of carcinoma of the sigmoid J G Sherrill

Kentucky M J 1918 xxvi 546

Electrocoagulation and desiccation in proctology I M Brenner Am J Surg 1928 v 381

The commoner surgical diseases of the rectum and their treatment M S Woolf California and West Med 19 8 xxix 232

Technique of making a colostomy C J Druck Internat J Med & Surg 1918 xli 495

An improved colostomy spur crusher DeW Strttes Im J Surg 1978 v 327 Ustula an etiological factor in rectal carcinoma S M

FITCHET New England J Med 1938 exerx 766
Bone metastases from rectal carcinoma LAMA Zen
tralbl f Chir 1928 lv 1687

Asthania and hamorrhoids concerning the pathogenesis of agoraphobia R IOMBARDO Rassegna internaz di clin e terap 1928 ix 628
Lissure in ano C & Frankes Med I and Rec 1928

Tissure in ano C C FRANKEN Med J and Rec 19:

Liver Gall Bladder Pancreas and Spleen

Recent advances in our knowled e of the liver in health and disease 1 G ROWNTRET Lancet 1928 xlvin 463 The pharmetric cells (100 km/Fer) to the liver of

The pharocytic cells (von kupf'er) in the inter of com mon laboratory animals G M Historys and G T Mixpry Anat Rec 1918 x 113 Stream line phenomena in the portal vein and the selective distribution of control blood in the lives and the

Stream line phenomena in the portal vein and the selective distribution of portal blood in the liver G II Copies and B M Dick Arch Surg 1928 xvii 403

The oc urrence and significance of latent injury to the ler in surgery. Likewise a contribution on comparative liver function tests. H. Achellis. Deutsche Zischr. f. Chir. 19. ccvi. 184

10 CCM 154
Thirmogen and form ferment changes in the blood with
paren hymatous injuries to the liver (necrosis of the liver
foll wing ligation of the common hepatic artery) Leva
and Romractur Deutsche Zischr 1 Chir 19 8 reix 230

In outbreak suggesting epidemic jaundice W S
Thomas Lancet 1928 cear or
The behavior of the plasma chlorides in obstructive

The behavior of the plasma chlorides in obstructive jaundice 1 S RAVDIN and M F MORRISON Arch Int Med 1918 alia 491

Malposition of the stomach and howel S Brows I Am M Ass 1928 xc1 1184

Punctional nervous disorders of the stomach and intes times R S Boles Penn M J 1928 Ettli 20 I douche and shower and special cabinet for eastro

intestinal tubes M EINHORN J Lab & Clin Med 1028 x1V 64 The chromoscopic fun tional test of the stomach with

neutral red S KARTAL Arch f Verdauun skrankh 1948 tlu 180

Functional dyspepsia, D M Mas on Minnesota Med 1928 ≭1 66 The effect of the roentgen rays on the gastric secretion

of dors after exposure of the lower abdomen T LANLMOTO and K India Jap J Obst & Gynec 1928 x2 203 Regional analysis of the stomach contents a comparison of the cardiac and pylonic curves \ J hinselfa Med

J Australia, 1928 ii 430 Acute idiopathi dilatation of the stomach T Garring

But M J, 1918 11 655 Chemical findin, s in the blood of the dog after temporary obstruction of the pylorus R L Hapey and T G ORR J Lyper Med 1928 alvan 591

Pylorospasm and pylori stenosis in infancy E G HUMBEL J Med Soc N Jersey 1928 XXV 619

The operative treatment of pylor spasm in infants II VOY WILLEBRAND Acta paediat 1918 vii Supp 2 27 Division of the vagi for pylorospasm Citagers H

MANO Ann Surg 1928 PERTURN 609 Congen tal pyloric stenosis S MONRAD Acta paediat 1928, VII Supp 2 16

Hypertrophi pylonic stenosis in infants The anatomical result of pylorotomy in a patient treated and cured three months previously I FREDET and L Level Bull et

mem. Soc nat de chr 1918 liv 1030 [124]
Congenital hypertrophic stenosis of the pylorus R
ROZUR. J Med Ass Georgia 1928 xvi 467
The Fredet Ramstedt operation for congenital pylorue

stemasis M B CLOPTON and L I HARTMANN Surg Gynec & Obst 1929 zlvn 527

The clinical and roentgen picture of hronic gastric phlegmon Caurita Zentralbl f Chir 1928 lv 1502 The objective basis for the neurogenic theory of gastric

uker E lotlak Zentralbl f Chir 1928 ly 1310 Sex differences in gastric and duodenal ul er & Hur TER Wien blin Wehn chr 1928 xli, 659

Pyloric achalasia and peptic ulcer E MARYIN and & G BURDEN Ann Surg 1928 leverum 565 [125] A case of pyloric ulcer at the point of pe foration R Borros Iolicius Pome 1928 xxx sez prat 1400

Treatm nt of the patient with peptic ul Granam Virginia M Month 1928 lv 483 On the p esence of mycelium in gastric ulcer O Ban

TOLI Sperim ntale 1929 bexxii 421 The rade alop rative cure of g stra and duod nal ulcer

A A BERG Surg Clin V Am 1918 vin 1167 Lases of gast ic papilloma D Marco Magy Roentgen Koezi 1928 s 184

The hi tology of changes due to pept c digestion and th ir relation to gastric carcinoma RUPCHNER Vergett a d kniegs- u konst tutionspathol Q27 1V

Carcinoma of the stomach A J WALTON Lan et o S [125] CCTV 438 Pyloric carcinoma with the clinical p cture of ileus E

Harm Z ntraibl f Cher 928 lr 1616
Juvenile carcinoma of the st m b C G CARRANZA and L FERRIRI Rev del circulo med de Lord ba 927

Cancer of the stoms h m p tients over seventy years of age J S Horstey Ann. Surg 1918 LYCYUM 5 4 [125]

Carcinoma and ulcer of the stomach E. M. Ester Canadian VI Ass J 1028 Rix 145 Gastro-enterostomy with a tran verse; junal in wee preliminary clinical report T S Mor's Surg Gync & Ohst 1028 zlvu 383 Gastric resection hypodermoclysis gas gan-mae me

O HILGENFELDY Zentralbl f Chir 10 8 lv 16 0 Recurring ulcers followin, partial gastre.tomy D C Baleour Ann Surg 1928 Ixxviii, 548 | 17 1127 Traumatic subcutaneous prolapse of the intistue

BREUER Zentralbl f Chir 1028 lv 1485 Traumatic subcutaneous prolapse of the intentor

WEBER Zentralbl f Chur 1928 lv 1745 I C Outres Intra intestinal pressure in ob truction A McIvrosn H B Srove and J Wetxered

Arch Surg 1928 xvn 507 An unusual case of inte tinal obstruction H Ruther Brit J Surg 1928 xvi, 340

Intestinal tuberculosis causin obstruction J R B BRANCH Arch Surg. 1028 XVII 440 Late intestinal stemosis following strangulated here

L Grassers and E Krery Ann Sur 1928, http:// Experimental studies in intestinal obstruction and is testinal toxemias C A Dasg repr Northwest Med

1028 XTVII 400 Intestinal (protein) intotication III Treatment. H.) BURTLE Med J and Re 1928 CTSVIII 386 hatren treatm nt of amabiasis C Paretitient

Polichia Rome 1928 Exvy sez prat 1492 End end to side anastomosis A V Lagrento Am J Surg 1928 v 379

I case of non rotation of the mil gut J W Ta v ov Brit I Sure 1028 XVI 332

Intestinal obstruction in infants A Soule M.d.] and Rec 1928 (TEVIN 343 Intussusception II W CAVE Am J Sur 1928, 7

Chronic intussusception J F Langton Vebraski State M J 1928 III, 3 5

Intussusception following posterior gastro-e t ristomy J LOSERT Be tr z klin Chir ros7 cxl 308 Con, enttal atresis of the small bowel E Bucters Zentralbl f Chir 1028 lv 1548

Rare etiology for ileus G Golis Zentralbl. I Chir 1028 lv 1426 Spastic ileus in lun embolism K Hevie Zentralbl

f Chir 1028 lv 1004 Gall stone sleus O \ OLSON Murr ota Med 19 5

X1 702 The form tion of true stones of the small board IL BARTH Aren f path Anat 1918 clave 716

Simple ulcer of the small bowel perforation atrophy of the spi en as an ac es ory finding H Schittle Norsk Mag f Lace vidensk 948 ltx ix 249 PENCE. Med P foration of the small bowel C B PENCE. Med Cln V lm 9 % v1 cor

The dilated duodenum J E DUMMERS And Suts

1928 ltx. 111 5 6 1 ca e of for gn body impacted at the duodenois unit flevitre

The inst llat h of a p cent hydrochlori acid into the d odenum a a diagnosti test for duodenal ulcer K GERNER VI LETENCHSEL and J TRIEBI EL THE gaz l k 198 v

Perforated duodenal ul er simulating acute append 25 Results of the op rative tre tment I duodenal ulcer

in a series f cases J A Macharian Canadian W iss I 10 8 XIX 442

GYNECOLOGY

Uterus

A case of double utems. H. De Sa. T. Obst. & Gynge Brit Emp 1928 xxxv 522 A case of perforation of the uterus R. MANDELBAUM

Muen hen med Wchnschr 1928 Ixxv 716 Pharma ological investigation of the circular muscles of

the uterus Reports I and II T KIBOTA Jap J Obst & Gynec 1028 x1 212 216 Flexions of the uterus a contribution on uterosalpingog

raphy L I opović klin Wchnschr 10 9 vu 1274 The Schubert operation for prolapse and fixed retro-flexion of the uterus W T Wiesen Monatsschr f

Geburtah u Garnaek, 1028 Irrux 51 Hastic reposition of the cervis (Asch) retroplantatio portionis & Marzporry Monatsschr i Geburtsh u

Gynaek , 1928 Ixxix 48 The vesicovaginal interposition operation (Wertheim Schauta) from the material of the Obuchow Krankenhaus in Leningrad 1 KRIWSKY Monatsschr f Geburtsh u

Gynaek 1928 Ixxviii 406 Cysti cervicitis with special reference to treatment by cauterization J C Masson and E Parsons Am Obst & Gynec 1928 xv1 348 [1]

Functional uterine hamorrhage and its relation to the ovaries and the rôle of ovarectomy in the treatment of these harmorrhages M HENKEL Therap d G g nw 1025 1117 208

Uterine hamorrhaue and its treatment T S CULLEY I Mi soun State M Ass 1928 xxx 457

The effect of corpus luteum extract on uterine hamor rhage. He tological change in the uterine mucosa and the ovaries in case of uterine hamorchage \ \AGASHIMA Jap J Obst & Gynec 1928 x1 201

Hematometra a report of twenty three cases H E Sin v Surg Gynec & Obst 1928 xlvu 356 [137] The treatment of uterine tumors G B MILLER VI ginia M Month 1928 lv 463

Apolycystic tumor of the uterus G HALTER Zentralbl 1 Cynaek 1928 lu 1153

The pathogenesis of the so-called adenomyosis with particular reference to Sampson's theory S MACZENSKI loiska gaz lek 1928 vn 211

Clini al manifestati us of a totally necrotic intramural myoma II Naujous Zischi f Geburtsh u Gynaek 1929 Kein 211

A case of angiomyoma of the uterus E EHNMARK Lp ala Lackaref Foerh 1928 xxtis 219 Supravaginal amputation or complete removal of the

n) matous uterus D VOV Orr Monatsschr f Ge bu tsh u Gyna L 1928 Ivvvii 108 I merimental implants in the blood vessels of fragments

of uterin mucosa the genetic mechanism of endometriom ata I Maret I dorma med 1918 aliv 1016 Autotran plantation of en iometrium in the eye of falbits I tiles and C I Baces Surg Gyner &

929 alvu 329 [137] Adult human endomet ium in tissue culture H F TRACT Surg Gynec & Obst 1928 xlv1 334 11371 The t catment of n imetrial proliferations Il Wald Zentralbl f Gynaek 10 8 lu 1819

Two cases I cervs al leur plakia noted but not d'ag nosed colpos pirally Gynack 1928 I 1 1698 Il Ilresetuane Zentralbl f

Leucypl kia of the portio II HINSTENIAN Mona tische i Ceburtsh u Gynaek 1928 lixin 41

Mixed tumors of the uterus and vagina W. Shaw Obst & Gynge Brit I'mp 1018 xxx 408 The prophylau of cancer with special reference to the cervituteri C J Miller New Orleans M & S J 1928 1xxxx 253

The relation of the histological structure to the prognosis of carcinomata of the uterine cervix W C HUEPER Surg Gynec & Obst 1928 xlvu 502

Cystoscopy in carcinoma of the cervix A A GEMMELI Ohst & Gynze Brit Emp 1928 xxxv 465 The early histolo, scal diagnosis of cervical carcinoma

SCHILLER Zentralbl f Gynaek 1028 lu 1562 Uterine carcinoma and cardiovascular function SEIDENTOFF Muenchen med Wchnschr 1928 Ixxv got

Epidermoid carcinoma of the cervix uteri K II MARTZLOFF Am I Obst & Gynec 1928 XVI 578 Streptococci in utempe carcin ima the test of their viru

lence and the action of deep irradiation on them II DEHLER Arch f Gynaek 1928 CXXXII 228 The irradiation of uterine carcinoma D DEN HOED

Strahlentherapie 1927 XXVII 416 Radium statistics f carcinoma of the cervix aten two more five year series G G WARD and L K I FARRAR

1 Am M \ss 1928 xc1 296 The results of ra hum treatment on carcinoma of the cervit uten G T Mowar Glasgow M J 1928 cx 142

11401 End results of the treatment of cervical cancer by radia tion therapy W P HEALY Am I Obst & Gynec 1025 X41 594

Systematical forminal panhysterectoms for carcinoma of the uterus II OKABAYASHI Jap J Ol st & Gynec 1928 at t 6

Removal of the body of the uterus and the cervical mucosa with the endotherm needle G. H. NOBLE IR South M J 1928 X11 912 Cer s al stump carcinoma following supravaginal hysterectomy \ Ster \ Im J Surg 1918 1 340

Adnexal and Perluterine Conditions

Torsion of the normal adnexa M WACHTEL Zentrall ! f Canaek 1924 lu 1453 The diagnosis of hernix into the pouch of Dauglas M KOERILER Med Klin 1928 xxiv 860

Actinomycoti parametritis and its development H Barth Arch [Gynaek 1928 cxxxiv 310

Parametries and renal conditions MARNER II Deut che Ztschr f Chir 192 ccv1 350 Failures following tubal sterilizati n M Korhler Zentralt I Cynaek 10 % lu 1397 Torsion of the fallopian tube L S Woods Med I

Australia 1928 11 439

Torsion of the fall plan tube with the report of a case producing acute gan rene of the tube

Im | Obst & Lynet 19 % xvi 210 [140]
Tuberculous salpingitis (C \osars \m | Obst & Gynec 1928 xv1 A case of pyosalping cau ed by oxyuns vermicularis

complicated by torsion of the oviduct W 5 Surris and I DENTON Am J Obst & Gynec 1929 xv1 205 1141' I timary bilateral carcinoma of the tube S \ WOLFF Am J Obst & Cymer 19 8 xvi 3 4

The biological activity of the female sex hermon I STEINACH M DORRY W SCHOELLER W HOHLWEC and W FAURE. Arch f d. ges I hysiol 1928 ccxix 30

Solitary exists of the liver I Moll Frankfurt Zischr f Path 1928 xxxv1 225 Hydatid cyst with joundice A W GARDINER Lancet

1028 CCXV ₹2

Hydatid evets communicating with the biliary tract their frequency, their treatment based upon 170 observa-tions of hydatid cysts of the liver operated at the Sadiki Hospital I G BRUN Bull et mim Soc nat de chir 1028 liv 1014 (1331

High grade torsion of the gall bladder F L THERSTAP PEN Fortschr d Med 1928 xlv1 12c The d agnostic value of cholecy stography F T Logo

New Incland J Med 1928 excit 773

Oral cholecystography W H STEWART and H E

ILLICK Am J Su # 1928, v 140

A plea for the standardization of technique in the oral method of cholecystography Radiology 1929 m 2,1 Cholecystography and transduodenal bulgary drainage

Shou Am J I centgenol 1918 xx 358
The cure of duodenal and gall bladder adhesions by attached omental graft L STEWART Penn M I 1028

XTX11 18 Differential diagnosis of stones in the right upper quad rant R E BARR South M J 1928 xvi 842 Gall stone disease in old age F METELER Wien klin

Wehnschr 1928 xlt, 689 The medical treatment of rall bladder disease M E REMPLSS Penn M J 1928 xxx1 13

Results of gall stone operations in aged patients. H Printeger Wien med Wichnische 1018 Iggyn 605 730 266 Find results in surgical treatment of gall bladder disease

M N HADLEY J Indiana State M Ass 1928 xm 428 Analysis of 250 cases of gall bladder op ration Dazzis J Med Soc \ Jersey 1928 vvv 642 The influence of cholecystectomy upon the structure of the pancreas and upon alimentary absorption

AGRIPOGLIO I oliclin Rome 1028 xxxv sez chir 107 The influence of cholecystectomy upon the bile passa, es an experimental study M. Canavero Polician Rome

1928 xxxv sez chir 429 Cholecystectomy report of a case with commentaries P Grigsry Internat J Med & Sug 1928 xli 491

Simpl fication of cholecystectomy I Baxes Zentralbi f Chir 1028 ly 1480 Cholecystectomy under sp nal anasthesis II I Good man Med J and Rec 1928 exyvii 324

Lersistence of symptoms after cholecystectomy C S WRITE and & L. RIDDICK South M J 19 8 xx1 857 Correlation of pathological findings and end results in cholecystectomy L S Lippincorr South M J 1928

Diseases of the bile passages and their surgical treatment LOERTE 1915 Dresden Steinkopff

The surgical sun scance of yets of the bile passages I Fepfix Deutsche Ztschr f Chir 928 ccix 65 Duod nobiliary drainage (non surp al) M Ashra

Med Soc N Jersey 1928 xxv 635
Biltary fistula A. H Bissell Am J Surg 19 8

Dundenal ur; ations in cases of choledochus f tula H HILLEBRAND Zentralbl f Chir 1928 lv 500 [134] Closure of the abdomen with ut drains after op ra tions upon the bile t acts H M RICHTER and L M ZIMMERMAN Ann Surg 1918 IXXXVIII 18 Aberrant pancreatic tiss e simulating duodenal ulcer

H W CAVE Am J Surg 1928 V 407

Pancreatic function II The pancreatic atti it a A HORRICHI and T TZUKABARA Arch lat Med 10 % zin, sto Pancrentitis V C Rowtann Obio State M I to 8

X 12V 777 Acute survical conditions of the pancreas-report of a

case of traumatic pancreatitis. A Ower North Miz ! Laegevidensk, 1028 lixxix 483

The surgical anatomy of the splenic vessels C. Hax SCHEN Schweiz med, Wehnschr 1028 but, 164, 1135 Traumatic rupture of the spleen C J Cellar love. Bnt M T 1928 11 700

Traumatic rupture of the spleen in an elderly man, L D NELSON Lancet 1028 ccay 861 Chronic splenomegaly in childhood dismosis and

treatment R HUTCHISON Brit M J 1928 u, 281 (135) Clinical pictures of splenomegaly P MORANTO Ztschr f aerztl Fortbild 1928 xxv 341

Splenic enlargement with currhosis of the liver | E DEAVER and S P REIMANN Ann Surg 1918 lumm,

Splenic anem a H. F COWALLY Texas State J M 1028 XXIV 426

Abscess of the spicen A. E BILLINGS Ann Surg 10 lxxxviii 416 Hæmorrhague cyst of the splere F 11 Buckert and D S D Jessup Surg Che V Am 1928 vill, 1915 Surgery of the spleen HENSCHEV 1928 St Galles,

Tschudy Splenectomy for thrombocytopænic purpura hamor thanica T M GREEN Internat I Med & Sure 19 \$

zh 437 The pathological physiology of fat metabolism following splenectomy 5 Lerres Klin Wchuschr 1928 vu 1186

Miscelianeous

An unusual case of abdominal injury in a child. IL M ELDER Canadian M Ass J 1928 xix 456
An interesting case for right lower qu drant diagnosis.

L ROBERTS and S CARLETON Surg Clin V Am 1920

VIU IOAI The dagnosis and management of abdominal ener gencies R M Evans Lentucky M J 1928 EN

Acute abdom nal traged es E C BRENER & York

State J M 19 3 xxviii 2012
Abdom nal tuberculosis with extreme emaciat on T C. HUNTER Lancet 1028 ccay 752

Experimental studies on the power of absorption of the pe iton leavity und r different conditions. A Military Arch f. Japan Chr. 1928 v. 532.

D aphragm excursions normal and patholorical. P. F.

BUTLER and H W DANA, Am J Ved Sc 928 cleans

Five cases f diaphragmatic injury T NEIGLEWER Zent albl f Chir 1928 lv 1560

Rupture of the diaphragm in a case of son Jaksch's angemin S N Dow B it M J 19 8: 743

D phragmatic herma Most Zentralbl f Chir 1918 lv 1086

Strangulated diaphrogmatic bernia J W Estal U S Nav I M B U 1938 xvvi 9 4 Stran ulation of bernien in the epiploic foramen case report S Richter Upsala Lackard Foeth 1938 xxu

303

GYNECOLOGY

Literus

A case of double uterus H De Sa J Obst & Gynaed But Emp 1028 xxxv 522 A case of perforation of the uterus R MANDFLBAUM

Much hen med Wchnschr 1928 lvtv 736 Pharma ological investigation of the circular muscles of the uterus Reports I and II T AUBOTA Jap J Obst &

Gynec 1018 xi 212 216 Flexions of the uterus a contribution on uterosalpingog

raphy L Popović Klin Wchnschr 1928 vii 1274
The Schubert operation for prolapse and fixed retro
flexion of the uterus W T William Monatsschr f Geburtsh u Gynaek 1928 lvvix 51

Plastic reposition of the cervit (Asch) retroplantation

ynaek 1928 lexix 48

The vestcovaginal interposition operation (Wertheim Schauta) from the material of the Obuchow Krankenhaus in Leningrad L Kriwsky Monatsschr f Geburtsh u Gynaek 1025 Ixxviii 406

Cystic cervicitis with special reference to treatment by cauterization J C Masson Obst & Gynec 1918 xvi 348 MASSON and E PARSONS Am Functional uterine hemorrhage and its relation to the

ovaries and the role of ovarectoms in the treatment of these hamorrhages. M. HENNEL Therap d. Gegenw. 1928 lxix 298

Uterine hamorrhage and its treatment T S CLLLEN Missouri State M Ass 19 8 xxv 457 The effect f corpus luteum extract on uterine harpor rhage. He tological change in the uterine mucosa and the ovaries in case of uterine hæmorthage 1 \AGASHIMA

Jap J Obst & Gynec 1928 xt 201 Hamatometra a report of twenty three ca es H I

SIMON Surg Gynec & Obst 1928 xlv11 356 [137] The treatment of uterine tumors G B MILLER VII ginia M Month 1028 lv 463

A poly yetic tumor of the uterus G HALTER Zentralbl f Cynack 1928 in 1153 The pathogenesis of the so-called adenomyosis with

particular referen e to Campson's theory 5 MACIENSKI lolka gaz Ik 1928 vii 211

Clini al manifestations of a totally necrotic intramural myoma H Naujous Zischr i Geburtsh u Gynaek 1028 XCH 211

A case of angumyoma of the uterus I I INMARA Losala Lackarel Foeth 1928 xxxiv 219 Suprava mal amputation or complete removal of the my matous uterus D von Orr Monatsschr 1 Ge

burtsh u Gynack 1928 leaves 108 I up rimental implants in the blood vessels of fragments of uterm mucosa the genetic mechanism of endometriom

ata L Manzi Riforma med 1928 xliv 1016 Aut transplantation of endometrium in the eye fibbits I ALLEN and C I Batter Surg Gyner & tabbits I Ob t 1028 alvu 320

11371 Ad it human end metrium in tissue culture TRACT Surg Genec & Obst 1929 alen 334 1137) The tre tment of end metnal proliferations W WALL

Zentratt f () nack 1918 In 1819 Two cases of c rvs al leucoplakia noted but not diag

nosed colpos p all H Hesselman Zentralbl I Gynack 10 x 1 tb95 Let plaks of the portso H. Hesselman Mona tsechr I Gebuttsh u Gynack 1918 Izzza 41

Mixed tumors of the uterus and vagina W SHAW [139] Obst & Gynge Brit Emp 1928 xxxv 498 The prophylaus of cancer with special reference to the cervituten C J Miller New Orleans W &S J 1018 ITTEL 253

The relation of the hi tological structure to the prognosis of carcinomata of the uterine cervit W C HLEPER

Surg Gynec & Obst 1929 xlvu 502 Cystoscopy in carcinoma of the cervit A A GEMMELL

I Obst & Gynec Brit Emp 1928 xxxv 465 The early histological diagnosis of cervical carcinoma

CHILLER Zentralbl f Gynael. 1918 lu 1562 Uterine carcinoma and cardiovascular function Seidentors Muenchen med Wehnschr 1928 lxxv 901 Epidermoid carcinoma of the cervix uten MARTELOFF \m J Obst & Gynec 1928 x11 5 8 Streptococci in uterine carcinoma the test of their viru

lence and the action of deep irradiation on them. If DEHLER Arch f Gynaek 1023 cxxxiv 223 The irradiation of uterine carcinoma D DEV HOED

Strahlentherapie 1027 XXVII 426

Radium statistics of carcinoma of the cervix uters two more five year strices G G WARD and L & I FARRAR 1m 1 Ass 1028 xc1 206 The results of radium treatment on carcinoma of the cervix uten G T Monar Glasgow M 1 1028 cv 142

Find results of the treatment of cervical cancer by radia tion therapy W I HEALY Am I Obst & Gynec 1028

X11 CO.1 55 temats abdominal punhysterectoms for carcinoma of the uturus II OKABAYASHI Jan J Obst & Gynec 1028

Xt 136 Removal of the body of the uterus and the cervical mucosa with the en lotherm needle G II NOBLE IR South M I 1028 xx1 832

Cervical stump carcinoma f llowing supravaginal hysterectomy A Strin Am I Surg 1028 v 140

Adnexal and Periuterine Conditions

Torsion of the normal adnesa M. Wachter, Zentralbi f Gynaek 1928 lu 1453

The diagnosis of hernix into the pouch of Dou las M AGERTER Med Alin to 8 xviv 860

Atmomycotic parametritis and its development. II BERTH Arch f Gynnek 1928 CXXVIV 310 Parametritis and renal conditions

Deutsche Ztschr f Chir 1927 cevi 350 Tailures following tubal sterilization M Koetter Zentralbi f Gynack 19 8 in 130 Torsion of the fall pian tube L 5 Words Med J

lustralia 1918 ii 439 Torsi n of the fallopian tube with the report of a case

producing acute gangrene of the tube M DOLGLASS m J Obst & Gyner 1028 x11 210 Tuber ulous salpingitis C C Normis Am I Obst &

Gynec 928 xx1, 552 A case of pyosalpinx cau ed by oxyuns vermicularis complicated by torsion of the oxidict W S Surm and I DENTON Am J Obst & Gynec 1928 xx1 29 RALL Primary bilateral carcinoma of the tube 5 1 MOLFE Am J Obst & Cynec 1923 211 3 4 [141] The biological activity of the female sex hormone | F STEINACH M DORRY W SCHOELLER W HORLINGS and

W FAURE. Arch I d ges Physiol 1918 cent 196

Flimmation of the female sex hormone M Dong's and W l'AURE Klin Wchnschr 1928 vil 041

The action of the internal secretion of the ovary on the genital function T Mizuvo Japan J of med so iv I harmacol 1027 h 1 The ovarian hormone and blood calcium M Reiss and

Mugx Endokrinologie 1928 1 181

Treatment of symptoms of ovarian loss of function following roentgen castration by means of prolliman W Herret Zentralbl f Gynaek 1928 lu 753 The present status of ovarian therapy J Am M Ass 1928 xc1 607

[[41] Reactiviting the senile ovary and the whole female organism by means of hormones 1 Stervice II Aun and W HOHLWEG Arch f d ges Lhysiol 1928 CEXIX 324

Autotransplantation of the ovary into the cavity of the uterus B A Lucro Clin ostet 1928 xxx 498 Letopic corpora lutea V B Dolcorol Am I Ol st & Gynec 1028 xvi 218 [143]

Four cases of ruptured corpus luteum cyst J GRU

ENSTEIN Med Llin 1928 triv 972 Actinomycosis of the ovary and fallopian tube STEIN Med. J and Rec 1918 exxviii 401

Congenital syphilis of the ovary W C MINNTAGER Am J Syphilis xit 511 A case of ovarian cyst with twisted pediale A N

Bessesev Jr Med J and Rec 1928 ctrvni 414 Papillary cyst carcinoma of the ovary J B DEAVER J Am 11 1ss 1928 xc1 1008

Melanoma (melanotic sarcoma) of the ovary with diffuse discoloration of the skin J R MILLER New England J Med 1028 CYCLE 810

External Genitalia

The vacinal approach to the peritoneum W. W Ban [143] COCK Surg Clin N Am 1928 viii 784 The formation of an artificial vagina (Baldwin s method) for congenital defect G GAMBAROW Monatsschr f

Geburtsh u Gynaek 1928 Ivevus 106 Chemical and bacteriological studies of the vaginal con tents of climacteric women R AESSLER and F LEH MANN Arch f Gynaek 1928 Cursin of Intercourse with a preventive as a cause of seve e vaginitis. A. LITTAUER Zentralbl f Gynaek, 1928 lu

Intercourse with a preventive as a cause of severe va ini tis W ROTHER Zentralbl f Gynaek, 1928 lu 1470 Intermittent vesicovaginal fistula with the report of a case C J ANDRENS Virginia M Month 1928 lv 472 Plastic operations for vesicovaginal and rectovaginal fistule à la Bassini R FREUND Zentralbi f Gynaek

1013 lu 1446 Cervical fibroids invading the vesicovaginal septum

P MAXWELL and L SHIH WEI J Obst & Gynec Brit Emp 1928 XXXV 514 Adenomyoma of the rectova mal septum F W Bux

erorr and D S D Jessup Surg Clin N Am 1928 VIII 1022 Myoma of the vaginal wall & Komier Zentralbl f

Gynaek 19 8 lu 1 66 Sarcoma of the vagina in the ad It A BASSET and P

Green Gynec et obst 1928 rvm 18 [143] Tubercul sis of Ba tholin's gland W D FOLLERTON J An M Ass 1928 xct 1176

A case of ang oma of the clitons & LIEIV Ginekol polska 1928 vil, 125 Hidradenoma vulvæ A BLAU Ztschr f Geburtsh u Gynsek 1928 rom 341

A rare large congenital cyst of the atogra tal sa C U von Liery Zentralbl f Gynaek 19 8 le, 1 9: Protecting the persneum C Sayvscar Zental | Gynaek, 1028 ln 1311

Miscellaneous

The physiology of the female genital tract. Do n Arch f Gynaek 1927 CXXXII 10 16

Handbook of gynecology J Vett Vol I Pt.: The menstrual cycle and its disturbances to 8 Nun b Beromann

Chemical studies of the menstrual blood A Roya and O WALDBAUER Zentralbl f Gynack to 3 lu on The menstrual changes of the red blood cells L. DETTL

Zts hr f d ges evper Med 1928 lir 240 The menstrual cycle and calcum A. Book Un

tsschr f (seburtsh u Gynaek, 1028 Iznix C Studies in the climacteric disturbances of blood pressive. I Banarn Alin Webnschr 1928 vu 645

Therapy of climacteric conditions J Husty Net med Wchnschr 1928 lyczym 10

The climatterium and climattene conditions included hæmorrha e A Cerrz Ztschr I aerztl. Lortbild 19 1

The action of ovarian transplantation on infantalism, endocrinal disturbances and symptoms of age in soman A LOESER Verhandl, d I internat, hon : 1 Sea alforsch to28 n

Erotism in marriage T H Van DE VELDE 19-3 Leipzig Konegen

Temporary sterilization of the female A. Linteria. Zeschr f Geburtsh u Gynaek 1929 xc1 369 Operative sterilization by extraperitoneal tran posts a A justification F INGELMANN Zentralbl f Gym k

192 14 1147 The influence of sterilization by partial total resection men truation and the sexual life B Mixt Zischt i d ges Neurol u Psychiat 1919 cm 639

Studies in immunization with fetal and placental ipod Internal Zentralbi f Gynack 19 8 in 1600 Tettbook of gynecology W Stoecker 1918 Lepus

The role of moving pictures in medicine especially in gynecology and obstetnes J P GREEVELL Terrs State J M 19 8 xxIV 405

The practical value of hysterosalpingography E CASTRONOLO Radiol med 1018 IV 801 Handbook of gynecology Vol 3 Stenl ty and sten lization Constitutional factors in gynecology J Vil

1917 Muni h Ber mann The treatment of sterility by transplantation of the ovary into the uterus S Macrewski Pol ka gaz 1k

1927 Vt 671 The Causes and treatment of sterility E Gauce Wen klin Wchnschr 1028 xlt 446

Common female pelvic pathology H F TRONG Med. I and Rec 1028 ctxviii 412 Gynccologs al findings in mental patients J A Jack

soy and I Ashevaters Med J and Rec 1919 curts Certain diseases of the colon in relation to gineral gy

A Worcecotouski Ginekol polska 19 8 vn 17 The hypotonic syndrome in gynecology () LA 6

Muen hen med Wchnschr 1978 ixxv 99 The coa ulation time of blood in gynecol giral diseases A1KO Jap J Obst & Gyne. 1928 E., 2 0

The resistance of the erythrocytes in gynecol giral dieases Effect of operation upon it F Areo and 5 Mire HARA Jan I Obst & Gynec 1928 II, 211

Replacing the symptomatic diagnosis of leucorrhora with name of the condition H HINSFLMANN Ztschr f

Geburtsh u Gynaek 1928 xcut 349

The patho enesis and diamosis of leucorrhoes R. SCHROLDER Deutsche med Wehnschr 1927 lin 1415 Outlines for the treatment of non gonorshoral leucor rhom & Bucuss Wien kin Wehnschr 1018 th 508 A standardized method for the management of leucor rhoea R T von Jaschke klin Wchnschr 1928 vii

The treatment of leucorrhoza F Mgas Wien klin

Webns hr 1028 th 410 The new method of treating leucorrhoea with curandra R DORRERTIN Zentralbl f Gynaek 1028 in 1016

Action of buffered factic acid on bacteria, with regard toleucorrhora H HABN Ztschr f d ges exper Med 1928

Cultural diagnosis of latent gonorrhoga in the female P E HEINE Zentralbl f Gynack 1028 ln 1050 The diamosis of chronic gonorrhoea in the female by means of the salk thread plate culture technique FIRSS Zentralbl f Gynaek 1928 lu 1108

The serodiagnosis of gonorrhoea in the female | Horra and I Schwarz Zentralbl I Gynaek 1023 ln 1829 Gonococcal lesions of the female genitalia including a

consideration of some important closely allied problems A H CURTIS Am J Obst & Gynec 1928 Xv1 531 Tuberculosis and the genital cycle in woman H RINGE

Muenchen med Wehnscht 1927 lvay 1863

The use of burn free ultrasonne (Landeker Stein berg) in gynecology K II hetere Zts hr I d ges physikal Therap 19 S yunv 1 3 The autovaccine treatment of synecological infections G I Praiz Deutsche med Wehnschr 1018 liv 1121

Pelvic tumors with associated urological symptoms G A Cashman Am J Surg 1928 v 404

Peripheral paralyses due to carcinoma in the pelvis k MATZDORFF Med Klin 1028 xxiv 074 The prevention of postoperative adhesions G GELI HORN Monatsschr f Geburtsh u Gynach, 1928 Ixvviii 413

OBSTETRICS

Presnancy and Its Complications

The value of the different tests for the early diagnosis of

pregnancy phloridzin test ninhydrin flocculation test antithrombin determination alcohol extraction GRAGERT Zischr f Geburtsh u Gynaek 1928 xcm 5 Differences in the flocculation test in the serum of pregnant and non pregnant women the question of the dia nosis of pregnancy R Condus Zentralbl f Gynaek 1923 in 1130

Is prenatal care worth while? A D Kirk J Michigan State M Soc 1928 xxvn 6cr

Some problems of prenatal care O Moore I South

Carolina M Ass 1928 Triv 229 Can one predict a child will be carried beyond term? II SELLHEIM Muenchen med W huschr 1928 lxxv 935

Zones of the abdominal skin and strice gravidarum RETTMANN Zischr f Anat u Intwicklungsgesch 1928 lxxxv 6e8

Physiology of the circulation in pregnant and puerperal women W Haupr Arch f Gynaek 1928 cxxxiii 47 Studies in the bactericidal action of the blood during pregnancy and the puerperium F Geller Arch f Gynack 1918 CYXYIV 141

Lacti acid d terminations in the uterine and embryonic circulations & vov Oerrivgey Zentralbl i Gynaek 1928 lu 1626

The colloidal structure of the plasma during pregnancy II FUFINGER Klin Wchnschr 1928 vu 497

The anti anthras property of human serum particularly that of pregnant women F C Hildenberg Zischr i Geburtsh u Gynael 1928 zcm 522 Clinical study of the water and sodium chloride metab

olism during pregnancy Gynael 1928 c xxiv 62 J BATISWEILER Arch f The correlation of lactation with pregnancy II STUX

Monatsschr f Linderh 1928 TETHII 481 The question of the gall bladder function during preg

nancy and the puerperium a preliminary communication R Beine Zentralbl f Gynaek 1928 in 1644 Bilirubinæmia durin, pregnancy and labor ELANSE Zentralbl f Gynaek 1923 lu 1461

The relation between cholesternnemia and the Wasser mann reaction G DE CANDIA Riv ital diginec 1928 VII 499

The diagnosis of syphilis in pregnant women by Muel let's Ballung test W. H. TREUTER Deutsche med Webnschr 10 S hv 001

Lidney infection during pregnancy R M I ECOMTE Virginia M Month 1928 lv 481

Pychitis of pre-mancy and the puerperium H L KINCAID Texas State J M 1928 XXIV 429 Subdividing the toricoses of pregnancy into the dys

hormonoses dysneurove atoses dysionoses and dyscol londoses L Scitz and H Elfinger Monatsschr f Geburtsh u Gynaek 1928 lexix 175 Hyperemesis gravidarum D H Bessesey Med I

and Rec 1928 Ctxviii 399 I ractical ob ervations on the diagnosis and treatment of hyperemesis gravidarum A Rosven Ginekol polska

1028 VH 6 Eclampsia in mother and child S Joseph Deutsche med Wehnschr 1928 liv 78, Results obtained in the treatment of eclampsia by the

improved prophylactic method and the value of tele phonic consultations W STROCKNOFF Edinburgh M 1018 XXTV 151 Studies of the physiological chemistry of the placenta

especially the occurrence of cholin in the placents 11 Stevers Ztschr f Biol 1928 luxuu 310

The floating test for intact placenta H Kuntz Zen tralbl f Gynaek 1928 lu 1578

A rare apparent difect in a complete placenta II Sucus Zentralbi i Gynnek. 918 in 1583 Systematic measurements of the amnotic fluid in the

different months of pre, nancy F A VONEGUT Zen tralbl f Gynaek 1928 ln 1306

The manner of occurrence of true knots of the umbilical cord F LITTLER Zentralbl f Gynaek 1928 lu 1717 A case of simultaneous cavity formation in Wharton's elly and cystic dilatation of the aliantois in a human em bryo of 17 mm K STEINER Arch f Gynaek 1928

CXTX3V 145 An unusual attitude of the child in utero [W BCRAS Lancet 1928 ccxv 751

The dia nosis of anencephalus during pregnancy If Noelle Zentralbl f Gynaek. 1978 lu 1345 Intra uterine lobar pneumonia and pneumococcumia

A S Gordov and VI LEPERER Am J Dis Child 1928 ERRYL 761

Filmmation of the female sex hormone M Dourn and W Fauxe Klin Wchnschr 1928 vii 945.
The action of the internal secretion of the ovary on the genital function T Missino Japan J of med so iv harmone 1027 n. z.

The ovarian hormone and blood calcium M Reiss and h. Maxx Lindokrinologie 1928 i 181

Treatment of symptoms of ovarian loss of function following roentgen castration by means of prokliman W. Herrel. Zentralbl I Gynack 1928 lu 753

The present status of ovarian therapy L NOVAK
J Am M 188 1928 xc 660
Reactivating the senile ovary and the whole female
organism by means of hormones I' Struvier II kin
and W Houtewey Vich I'd ges Ilysiol 1938 cckis

Autotransplantation of the ovary into the cavity of the uterus B A I vero Clin ostet 1928 xxx 498 [143] Letopic corpora lutea V B Dolgorol Am J Obst & Gynec 1018 xvi 218

& Gynec 1918 xvi 218

Fou cases of tuptured corp is luteum cyst J Grit
ENSTEIN Med Min 1928 xvi 972

Actinomycosis of the ovary and fallopian tube A

Actinomycosis of the ovary and fallopian tube A
STEIN Med J and Rec 1928 cxxviu 401
Congenital syphilis of the ovary W C MINNINGER

Am J 5.76 hls xu 5xt A case of ovarian cyst with twisted pedicle A N BESSESSEY JR Med J and Rec. 1028 CRIVILL 414 Papillary cyst carcinoma of the ovary J B DZIVER J Am M Ass 1928 xcl 1008

Melanoma (melanotic sarcoma) of the ovary with diffuse di coloration of the skin J R Miller New England J Med 1928 cx ix 830

External Genitalia

The vaginal approach to the peritoneum W W Bas cock Surg Un N Am 1918 vit 781 [143] The formation of an artificial vagina (Baldwin's method) for can ential defect G GAMBIRON Monatsschr f Geburtsh u Gynack 1918 laxvin 106

Chemical and bacteriolo ical studies of the vaginal contents of climacteric women R LESSLER and F LEH

ten's of climacieric women. R. Resuler and F. Leif Many Arch f Gynaek 1928 cruin 791. Intercourse with a preventive as a cause of severe vaginitis. 1 Littauer Zentralbl f Gynaek 1928 in

1415
Inte course with a preventive as a cause of severe vagini
1. W. Rothern Zentralol, f. Gynaek. 1918 lu 1470
Intermittent resicovaginal installs, with the report of a

Case C J NOBEWS Virgina W Month 1918 lv 472
Plastic operations for vest oraginal and rectovaguish stude a la Bassin R FEFUND Zeutralibl f Gynack 1928 ln 15 6
Cervical fibroids invading the vestovaguial septum

Lervical information invaring the vericova, mai septement I I Maxwell and L Shin wet J Obst & Gynzec Birt Emp. 1928 xxxv 514

Aderoryoma of the rectovaginal septum F W Ban CROFT and D S D Jesser Surg Clin N Am 19 S Sur 1023

Myoma of the vaginal wall k Konteg Zentralbi f Cynaek 1928 lu 1266

Cynack 1935 in 100 an in the adult A B sset and P Sarcona of the vagna in the adult A B sset and P Gufarv Gynéc et obst 1938 xim 18 [143] Tubercul sis of Bartholina gland W B Fackertov J Am M 485 028 xi 1 5 A case of angiona of the citio is K. Kirin Gi kol

polska 1928 vu 125 H dradenoma vulvæ A Blau Zischr f Gebuttsh u Gynaek 1938 xuu 342 A rare large congenital cyst of the unogental mag. C U vov Klery Zentralbl [Gynack 19 8 to 19] Protecting the perincum C Services Zentali I Gynack 1928 for 1317

Miscellaneous

The physiology of the female genital tract Dir it Arch f Gynaek 1927 cxxxii 10 16

Handbook of gynecology J Vair Vol. I Pt. 2 To menstrual cycle and its disturbances 19 8 Mann. Bergmann

Chemi al studies of the menstrual blood A Ro vaid O WALDBUER Zentralbi I Gynack 1938 in 90. The menstrual changes of the red blood ctils. In Drus. Ztschr I d ges exper Med 1938 ltr, 240.

The menstrual cycle and calcium A Bock M at tsachr I Geburtsh u Cynaek 1918 kms o
Studies in the climacteric disturbances of bloodyteso v

Studies in the elimacteric disturbances of blodyress v. I. Baratin Alin Wahnschr. 1918 vii 643.

Therapy of elimacteric conditions. J. Hataas. Wen.

med Wehnschr 1928 lexyut 10

The clumacterium and climacteric conditions in death themorrham 1 Serre Zische I aereil Fort id mit, xxv 16.

The action of ovarian transplantation on infinition, endocrinal disturbances and symptoms of are in worse. A. LOSESE Verhand! A linternat Knop: [Serial forse, 1928 is

Erotism in matria e T H Van pe Veide 10 5

Temporary sterilization of the female A Intuite Zische I Geburtsh, u Gynack 1928 zrim 359. Operative sterilization by extraperational transport, n A justifi attom F ENGELWAYN Zentralbi I Gy E 1928 lb, 1147

The influence of steribration by partial tubal react nonmenstruation and the sexual life B Mitr Zischr i d ges Neurol u Psychiat 19 S can 630 Studies in immunication with fetal and placental liped

E ISHIKAWA Zentralbi t Gynaek 19 % 11, 1699
Textbook of gynecology W Storcket 19 8 Lup #
Hirzel

The rôle of moving pictures in medicine especially in gynecology and obstetrics J P Greening. Term Suite

J M 1938 xnv 40
The practical value of hysterosalpingography E
Castroviovo Rad ol med 19 8 xv 801
Randbook of gynecology 1 1 3 5 enlity and st n
Randbook of gynecology 1 1 3 5 enlity and st n
Randbook of gynecology 1 1 km

1927 Munich Bergmann
The tr atment of sterility by transplantation of the ova y into the uterus S MACZEW 21 Pot ka 522 12

The causes and treatment of sterility E Grace New klin Wehnschr 928 xh 446

klin Wehnschr 928 xli 446
Comm n female pelvic patholo y H T creo Gi
Med I and Rec 1928 CXXVIII 411

Gynecolo, cal bindings in mental patients J 4 Jick sov and I issue werest Med J and Rec 1978 exists

Crtain disca es of the olon in relation 1 generol 27. Wojereniowski, Ginek I polska 1918 vii 177. The hypothore syndrome in generol 27. The hypothore syndrome in generol 27. The congult in this for 1929. The congult in the property of the form of the property of the form of the property of the form of the property of the property of the form of the property of the

The resistan e f the rythro ytes in gynetolo al diseases Effect of operation up not F Aixo and S Mut

HARA Jap J Obst & Gynec 19 8 x1 211

Carsarean section L A CROWELL South M & S 1028 xc 676 The bacterial content of the uterus at casarean section

J W HARRIS and J H BROWN Am J Obst & Gynec

156

1028 XVI 332 Indications for operation in 20 casarean sections in a senes of 500 private cases with observations on toxemia of pregnancy and postmaturity L S Loregov Surg

Clin N Am 1928 viii 1127

Lesarean sections at the Hartford Hospital 1904-1927 I R MILLER New Fouland I Med 1028 excis 6er A survey of exsarean section in the Borough of Brooklyn City of New York C A GORDON Am J Obst & Gynec 1028 XVI 307 Technique of casarean section A method of protecting

the pentoncal cavity & A TSCHEREPACHIN Muenchen med Wchnschr 1928 Ixxv 695

A slight but useful modification of the technique of

exearcan section H SELLIEUS Zentralbl f Gypnek 1928 ln 1177 Vaginal casarean section L Bectalli Riv ital di

ginec 1928 vii 550 Casarean section for dead baby R S HOPPMANN Zentralbl f Gynaek 1928 lu 1258

Casarean section under local anasthesia W HUME Lentucky M J 1928 xxv1 500 The abuse of casarean section P W Toours Illinois

1028 In 273 Histological study of the uterine wall following several casarean sections. Contribution on the processes of wound

healing in the uterus W Bacii Ztschr f Geburtsh u Gynaek 1928 zem 451 The sitting posture in the third stage of labor

HAMMERSCHLAG Monatsschr f Geburtsh u Gynaek tots Italy 200 I'wo important prophylactic measures in the third stage

of labor I JESS Zentralbl f Gynaek 1928 ln 1732 Hacenta prævia and other hæmorrhages during labor F KERMILVER Wien klin Wehnschr 1927 al 1 The value of Gabaston s extraction method of placenta

F Atko Inp I Obst & Gypec 1928 20 207 Placenta accreta D L Jackson N Nork State J M 1918 XXVIII 1997

Removal of placents accreta W ZANGEMEISTER Monatsschr I Geburtsh u Gynack 1928 Ixxviii 402 Further expenen es with intravenous injection of gypergen in combating at onic pestpartum bleeding VOS MIEULICZ RADECKI Zentralbl f Gynaek 1928 lu

Puerperlum and Its Complications

Prognosis in the puerperium II Horrwin and A Dunyskowa Monatsschr f Geburtsh u Gynack 19 8 1232 34

The bacterial content of the vagina and uterus on the hith day of the normal puerpersum J W HARRIS and J H Brown Bull Johns Hapkins Hosp Balt 1929 xlm 11431

The prevention of puerperal infections H F Land norst Illinois M J 1928 liv 298 One-day fever in the puerperium

Deutsche med W huschr 191 liv os Postpartum pelvi infections B P Warson Im J Olist & Gypec 1918, rd 536

S HECKSCHER

Cervi al infections in the presperium J R Coonett and M Wisewey Am J Obet & Gynec 1918 xvi 110

Puerperal gas-baultus infection A Louis Zentralil f Cy.ack 1918, lu, 1314

An outbreak of puerperal sepsis in New York City B P WATSON Am I Obst & Gynec 1928 xv1 157 Fordemiological and bacteriological investigation of the Sloane Hospital epidemic of harmolytic streptococcus puer peral fever in 1927 F L MELENEY ZUNG-DAU ZAL II ZAYTZEFF and H D HARVEY Am J Obst & Gynec 1028 TVI 180

The local treatment of puerperal sensis with Besredka's autovaccine G ASCHERMANN and L ROSENBLUM Mona esschr f Geburtsh u Gypaek 1928 Ixxix 293

Maternal mortality from puerperal sepsis an analysis of the factors of contagion trauma and auto infection Yorks Edinburgh M I 1928 xxxv Edinburgh Obst Soc (Edema of the vulva directly following labor K Rosew

Monatsschr f Geburtsh u Gynaek 1928 LOECHER lxxix 107

Spontaneous rupture of the uterus during the puerperium with retained placenta B 5CHWOERER Zentralbl f Gynaek 1028 lu 1340

Newborn

Statistical research of Japanese newly born infants Report 2 F Aiko Jap J Obst & Gynec 1928 x1 206 Lan the seasonal variations in birth weights be proved statistically? L. HELLEUTH Zischr f Geburtsh u Gynaek 1028 xcm 147

The relationship of carbon-dioxide in the blood to as physia and the activity of the respiratory center general considerations and observations on the newborn I D

Grorge Anes and Anal 1928 vii 101

The treatment of asphyxia in the newborn preliminary report of the practical application of modern scientific methods P] + 1400 J Am M Ass 1928 xci 288 [146] Difficulties in pursing and methods of overcoming them advice to mothers in the infants dispensary L. Moll. 1928 Vienna Letles

I olychromasia in the blood of fetuses and the newborn 1 Ewath and P Wirz Arch f Gynsek, 1928 czznu 85 Familial acterus of the newborn H A Rosevnatus Arch Pediat 1028 xlv 621

Blood in the stools of the newborn B E Boxar Am J Dis Chili 1928 xxxvi 725

Albuminuma in the newborn D GREER II Jourson an IR JOHNSON South M J 1928 xxx 860

Tetanus neonatorum report of a case with recovery D L SHITH Arch Pediat 1928 xlv 562 I rare instance of infection of the newborn I' SCHLES-

INGER Zentrall I f Gynaek 1928 lu qf 3 I sperimental studies of con, enital trypanosomiasis and spirochetal infection E PHILIPP Arch I Gynaek 1928

CXX VIII 573 The treatment of newborn babies of syphilitic mothers

E KLAFTEN Arch I Gynack 1928 CKKEV 85 A study of positi e cord Wassermann reactions in the newborn infant, W L FUNEHOUSER and R W Dickson

Im J Syphilis 311 C42
\[\text{ray diagnosis of syphilis of the newborn G K F} \] SCHULTER Lischt I Geburtsh u Gynack to18 acus 315

A case of exen ephaly H L ROCHER and R GUERIS J de med de Bordeaux 1928 th 633 An intestinal malformation and volvulus in a newborn

child Bontue and Levy Bull Sor dobst. et de gynée de Par 1028 avil 66 Congenital general hydrops W Laux Monatsschr f

Geturish u Gynack., 1928 Ixxix 63 The increased frequency of mongoloid spottin, in the newborn in Zagreb F Mayremores and M Lyrotz

Axanovic. Wien klin Wehnschr 1928 zli, 775

I etal peritoritis report of a case following spontaneous rupture of the large intestine. A E Tischer Am J Dis Child 1938 xxxv. 774
I regnancy terminated by exsarean section after ureteral

transplantation into the sigmoid C W EBERRICH and J M PIERCE Surg Gynec & Obst 1928 Alvu 540 Mortion from the standpoint of the general practitioner the avoidance of uterine perforation. HEVYISCHAK Wien

me I Wchnschr 1928 Invite 700
The treatment of septic abortion G Gellhory Am

J Obst & Gynec 1925 xvi 547
Chorea complicating pregnancy case report E J
STONE and M MARESON Wisconsin M J 1928 xvvii

454
The closure of the pregnant uterus and its opening dur ing labor H STIEVE Zentralbl f Gynaek 1928 in 218
The diagnosis of contracted pelvis without instruments
H BAUMY Med Kim 1928 Xuy 1007

Clinical experiences with 36 extra uterine pregnancies F kovics Oryosi hetil 1928 Izrii 619

Biology and pathology of the female a handbook of gynecology and obstetrics J Halban and L Seitz Vol 7 Pt 2 Ectopic pregnancy O Hornve 1928 B rlin Urban & Schwarzenberg

Ectopic pregnancy B Mann Med J and Rec 1928

A case of combined intra and extra utenne pregnancy
P II RULLE Zentraibl f Gymael 1928 in 1500

Intra uterine and extra uterine pregnancy F R. OAST LER Am J Surg 1928 v 358 Interstitial pregnancy with secondary abdominal pregnancy II II SCHAID Monatsschr I Geburtsh u

pregnancy H H Schino Monatsschr f Geburtsh u Gynaek 1927 Ixvvn 352 Infundibular pregnancy (tubo-abd/m nal) Geisset

Somer Zentrali I f Gynack 1928 in 1401
A tubo-utenne gestation carried to term Z vov
Szerhuáry Monatsschr f Geburtsh u Gynack 1928

LYUK 277
Tubal pregnancy six years after bilateral tubal ligation with external mig ation of the ovum G SCHWARZWAZLIER

Zentralbi f Gynael. 1928 in 1459
Ruptured ovarian pregnancy E W Riches Proc
Roy Soc Wed Lond 1928 at 1854.
Rupture of the uterus following a previous canarean

Rupture of the uterus following a previous caracreat section H kurstness Monatsschr f Geburtah u Gynack 1928 levic 285

Pregnancy and hamorrhage into an ovarian cyst F R
OASTLER Am J Surg 1928 v 359
Pregnancy and cervical myoma G Hrowada Wien

med Wehnschr 1928 Ixrvii, 318

Twin pregnancy with degeneration of one ovum into hydatediorism mol a contribution on the etiology of hydatediorism moles O GREGER Monatsch E Geburtsh ii Gyrack 1928 Ixrvii 43

Some cases of cervico-uterine epithelioma in a pregnant woman and treated by radium therapy Roy Bult Soc dobst et de gynéc de l'ar 1928 xvii 053

Pregnancy following and in the presence of uterine car cinoma C karo Monatsschr f Geburtsh u Gynath 1928 Ixxviii 264

Labor and Its Complications

Obstetrical indi ations G Wanter Med Llin 1928

XXIV 479
The effect of bile sails upon the automatic contractions
of the uterus and upon the action of pituitary extract dur
of gre nancy A possible explanation for the cause of
labor J HOFBLUER Am J Obst & Gynec 1928 ym
245

The conduct of labor M Henri Arch f Gyalings Curviv 18
A new method of the conduct of labor with the try of medical modwies J Wirmore Zentribl f Gyark, 1918 (n. 1816)

Pauless labors M DrGars Brit. M J 19 S. 1, 1 The management of weak labor pains with dailburn H Werrz Doutsche med Wichschr 19 8 lb 900 The action of oxytocin and vasopressa on the stress labor A W Botheya and J H Bers Lancet 19 8 tor

694
Anasthesia in obstetnes F W Lynch California
West Med 1918 xur 173
Conduction an aristhesia at time of d livery for proteir
of the perineum E Pribras. Zentralbi f Gyark, 19 3,

iii 1447

The rectal administration of avertin for the reliaf of birth pains. Horsey Zische f Geburtsh u Gynek,

birth pains. Horneys Zischr f Geburth u Gyner, 1928 xeii 537. Manual dilatation of the cervix in abnormally deligid labor. M. Vauynecic. Zentralbi. f. Gynaek. 198, k.

1310
The rigid and stenosed cervix in the first stage of labor
A Marmieu and G C Schauffler. Am J Obst. &
Gynec 1928, 191, 390
[14]

The changin, relationship between the form of the had and the course of labor E WEMERETTE Arch | Gyna k 1028 CETTIN 313

Deflexion attitudes F Desture Zentralbl. f Gyard 1918 in 1653

The diagnosis and mana ement of occiput posteror

cases P Sr L MONCURE, Virginia V Month 19 No.
448
Occiput posterior pos tions and their treatment. V S
Signer. Northwest Med 1928 xxvii 485

Sichel Northwest Med 1928 xxvii 485 On positio occipitalis sacralis Sn Yuvori Jap J Obst & Gynec 1928 zi 199

Obst & Gynec 1938 11 199
When to do a version in uncomplicated transverse positions E Saces Arch f Gynael. 1948 exem 44
Injury to the head and practical obstetn s. R. I 100

JASCHEE Arch I Gynaek 1928 CXXXIV I
The roentgen diagnosis of hydrocephalus at the beginning of the stage of dilatation G Albavo Zentralbi. I
Gynaek 1927 li 2293

Gynaek 1927 li 2793
Delivery of a rare deformity (dicephalus tribrachus)
F Ratoss Zentralbl f Gynaek 1928 lii 1075
The unfavorable sequelæ of high forceps (uterine rup

tere air embolism dislocation of the pelus tears of the bladder and their prevention) O you François Med klin 1938 miy 401
The long labor H Balley Am J Obst & Gync.

19 3 14 314
Measures for the prophylactic preservation of the function of the perineum D vov Orr Zentralbl f Gynack

19 8 lu 1564
Repture of the vaginal portion of the uterus during labor
B Gydlai Oriosi hetil 1938 lixiu 362
Central repture of the cervar its prerequisites and con
sequences P Captelle Zentrall I Gynaek 1938 for

Injuries to the lines of un on of the pelvic bones during labor. A Garrier Ginekol polska 1928 vii 105.

The properties a surfaces of favor during labor.

The prognostic a gaincance of fever during labor F
SEIGHET Zentralbl, f Gynaek, lu 615
A case of obstructed labor due to malignant disease of
the sigmoid colon H H EVERS J Obst & Gynec.

the sigmoid colon. H. H. EVERS. J. Obst. & Obst. Brit. Emp. 1928. xxxv. 525.
Litraperitonical life-endangerin, hamorrhage duria, labor. A rare indication for casarean section. W. Brostev.

Zentralbl f Gynaek 1928 lu 1847

Casarean section L A CROWELL South M & S 1928 xc 6 6

The bacterial content of the uterus at casarean section I W HARRIS and I H BROWN Am I Obst & Gynec [145] 1928 EVI 332 Indications for operation in 29 casarean sections in a

series of 500 private cases with observations on townia of pregnancy and postmaturity 1 S Loizeaux Surg

Clin N Am 1028 VIII 1127

Casarean sections at the Hartford Hospital 1904-1927 J R MILLER New England J Med 1928 excis 651 A survey of casarean section in the Borough of Brooklyn

City of New York C A GORDON Am J Obst & Gynec Technique of casarean section A method of protecting the peritonial cavity G & Tscherepachin Muenchen

med Wchnschr 1928 lexy 695 A slight but useful modification of the technique of casarean section II Sellifets Zentralbl f Gymrek

1028 lu 1177 Vaginal casarean section L Bacialis Riv ital di

ginec 1028 VII 550 Casarean section for dead baby R S HOFFMAN Zentralbl f Gynaek 1928 lu 1258

Casarean section under local anasthesia W HUVE kentucky M J 1928 xxv1 509

The abuse of casarean section P W Toombs Illinois

M I 1928 liv 273 Histologi al study of the utenne wall following several cesarean sections. Contribution on the processes of wound healing in the uterus W BACH Zischr f Geburtsh u Gynaek 1928 xcut 453

The sitting posture in the third stage of labor HAMMERSCHLAG Monatsschr f Geburtsh u Gynaek

1028 IXXIX 200

Two important prophylactic measures in the third stage of labor 1 Jess Zentralbi (Gynaek 1928 in 1732 Hacenta prævia and other harmorrhages during labor I KERMAUVER Wien klin Wehns hr 1927 al 1 The value of Gabaston s estraction method of placenta

I treo Jap J Obst & Gynec 1918 x1 107 Placenta accreta D L JACKSON A York State J M

1929 XXVIII 2007 Removal of placenta accreta W ZANGEMEISTER Monatsschr f Geburtsh u Gynaek 1928 Ixxvin 402 Further experiences with intravenous injection of gynergen in combating atom postpartum bleeding VON MIRULICE RADECKI Zentralbl f Gynaek 1029 lit

Puerperlum and Its Complications

Prognosis in the puerperium. H. Hoffman's and A Denyskowa, Monatsschr f Geburtsh u Gynack 1928

The bacterial content of the vagina and uterus on the fifth day of the normal poerperium] W HARRIS and] 11 Brown Bull Johns Hypkins Hosp Balt 1928 alm

The prevention of puerperal infections II F Langmorest Illinois M J 1928 by 293 One-day fever in the puerpenum S HECKSCHER

Deutsche med Wehnscht 1928 liv 05 Postpartum pelva- infections B P Warson Am J

Obst & Gynec 1918, xvi 536

Cert al infections in the puerpenum J R. Goodell and W. Wiskass Am. J. Obst. & Gynec 1918 xvi, 510

Puerperal gas-bandlus infection 1 Kont Zentralil 1 Cyasek, 19 8, lu, 1324

An outbreak of puerperal sepsis in New York City B P WATSON Am I Obst & Gynec 1028 XVI 157 Enidemiological and bacteriological investigation of the Sloane Hospital epidemic of hamolytic streptococcus puer peral fever in 1927 F L MELENEY ZUNG DAU ZAL If Zaytzerr and H D HARVEY Am J Obst & Gynec 1028 XVI 180

The local treatment of puerperal sepsis with Besredka s autovaccine G ASCHERMANN and L ROSENBLUM Mona

tsschr f Geburtsh u Gynaek 1928 Ixxix 203 Maternal mortality from puerperal sepsis an analysis of the factors of conta ion trauma and auto-infection

Young Edinburgh M I 1928 xxxv Edinburgh Obst. Soc Edema of the vulva directly following labor K Roses

LOECHER Monatsschr f Geburtsh u Gynack 1918 lesir 107 Spontaneous rupture of the uterus during the puerperium

with retained placenta B SCHWOERER Zentralbl f Gynack 1923 in 1340

Newborn

Statistical research of Japanese newly born infants Report 2 F AIKO Jap J Obst & Gynec 1928 x1 206 Lan the seasonal variations in birth weights be proved statistically? A HELLMOTH Zischr f Geburtsh u

Gynaek 1928 xcm 147 The relationship of carbon-dioxide in the blood to as physia and the activity of the respiratory center general considerations and observations on the newborn I D

GEORGE Anes and Anal 1028 VII 101 The treatment of a physia in the newborn preliminary report of the practical application of modern scientific methods P J FLAGG J Am M Ass 1928 xci 788 [146]

Diff culties in nursing and methods of overcoming them advice to mothers in the infants dispensary L Moll 1928 Vienna Perles

Polychromasia in the blood of fetuses and the newborn A Ewatp and P Wirz Arch f Gynaek 1018 exxxin 85 Familial science of the newborn II A Rosesnative Arch Pediat 1028 alv 621 Blood in the stools of the newborn B E BOYAR Am

Dis Child 1028 xxxv1 725 Albuminums in the newborn D GREER H JOHNSON

and R Joneson South M J 1928 xx1 860 Tetanus neonatorum report of a case with recovery

D L Surm Arch Ledut 1928 zlv 562 A rare instance of infection of the newborn I' Scinics INGER Zentralbl f Gynaek 1928 lu 963

Experimental studies of congenital trypanosomiasis and spirochetal infection E Phinter Arch f Gynael 1918 CXXXIII 573

The treatment of newborn babies of syphilitic mothers

E KLAFTEN Arch ! Gynack. 1918 CEVEN 88
A study of positive cord Wassermann reactions in the
newborn infant W L PUNEHOUSER and R W DICESON

Am J Syphilis an 542 Yeary diagnosis of syphilis of the newborn G K F

SCHULTER Zischt i Geburtsh u Gynack 1928 Rein 315 A case of exencephaly II L ROCHER and R GUERIN I de med de Bordeaux 1928 cs 633 In intestinal malformation and volvulus in a newborn

child Bontue and Levy Bull Soc dobst et de gynée de Par 1928 xvu 663

Congenital general bydrops W Lanu. Monatsschr f Geburtsh u Cyrack, 1928 lxxir 61

The increased frequency of mongoloid spotting in the newborn in Zagreb E MAYERIOTEX and M LYPOIT ARADANIC, Wien blin Wehnschr 1918 Elt. 775

Tetal peritonitis report of a case following spontaneous rupture of the large intestine A E FISCHER Am J Dis

Child 1928 xxvv 774
Prepnancy terminated by exsarean section after ureteral transplantation late the sigmoid C W Lierzbuch and J M Pierce Surg Gynec & Obst 1928 xlvu tip Abortion from the standpoint of the general practitioner

Abortion from the standpoint of the general practitioner the avoidance of uterine perforation. HRYSTSCHAE. Wienmed Wilnisch: 1928 Exviii 700.

The treatment of septic abortion G GELLHORY Am

J Obst & Gynec 19 8 xvi 547 Chorea complicating pregnancy case report L J STOVE and M MARKSON Wisconsin M J 1928 xxviii

The closure of the pregnant uterus and its opening during labor. H. Stieve Zentrallil f. Gynaek. 1913 in 218. The diagnosis of contracted pelvis without instruments. H. BAUMA Med. klin. 1923 xiiv 1901.

Clinical experiences with 365 extra uterine pregnancies F Kovács Orvosi hetil 1928 lxvii 610

Biology and pathology of the female a handbook of

gynerology and obstetrics J Harry and L Serre Vol 7 It 2 Ectopic pregnancy O Horne 1028 B thi Urban & Schwarzenberg

Ectopic pregnancy B MANY Med J and Rec 1928 exxvii 400

A case of combined intra and extra uterine pregnancy
P II RULLE Zentralbl f Gynaek 1928 lu 1500
Intra uterine and extra uterine pregnancy I R Osst

Intra uterine and extra uterine pregnancy. I. R. Oast LER Am. J. Surg. 1928. 9 328. Interstitut pregnancy with secondary abdominal pregnancy. II. In Schuld. Monatsschr. f. Geburtsh. u.

Gynek 1927 [xxvii, 352]
Infundibular pregnancy (tubo abdominal) Get set

Infunctionar pregnancy (tubo addominal) Get set sogner Zentralbi f Gynaek 1928 ln, 1401

A tubo-uterine gestation carried to term Z von Szathmany Monatsschr f Geburtsh u Gynaek 048

Ixix 277
Tubal pregnancy six years after bilateral tubal hation

with external m gration of the ovum G Schwarzwarller Zentralbl f Gynack 1928 ln 1430 Ruptured ovarian pregnancy L W Riches Proc

Roy Soc Med Loud 1923 EU 1864
Rupture of the uterus following a previous casarean
section II AUESTVER Monatsschr f Geburtsh u

Gynack 1028 Ivut 286
Pregnancy and hemorrhage into an ovarian cyst F R
Osstier im J Surg 1918 v 359

Pregnancy and cervical myoma G Hromada Wien med Wchnschr 10 8 lxxvii 318

Twin pregnancy with degeneration of one ovum into

bydatidiform m le a contribution on the etiology of hydatidifo m moles O Gragery Monatsschr f Ge bu tsh u Gynack 1928 luvin 53

but sh u Gynaek 1928 Ixxviii 53
Some cases of cervico-uterine epithel oma in a pregnant
woman and treated by radium the apv Roy Bull Soc

d ob t et de gynée de Par 10 8 xvii 653 Pregnancy following and in the presence of uterine car cinoma C Karo Monatsschr f Geburtsh u Gynack 1028 Ixxviii 264

Labor and Its Complications

Obstetrical indications G Willer Med Klin 19 8

The effect of bile saits upon the automatic contractions of the uterus and upon the act on of p tuntary extract during p e.gam y Å poss ble emplantion for the cause of labor] Horsuver Am J Obst & Gynec 1928 xm.

The conduct of labor M HENEEL Art f Grant 1928 exxxiv 18

A new method of the conduct of labor with the behold medical midwives J Werborr Zentralbi, I Gyark, 1028 lu 1136

Panless labors M DeGaris Brit M J 19 3 2 14 The management of weak labor pans with dailment H Werre Deutsche med Wichnehr 19 8 lv 900 The action of oxytocin and vasopressin on the utrus labor A W BOURNE and I H BERN Lancet 19 5 kg

694
Anasthesia in obstetn s T W Lyven Caldona &
West Med. 1928 xvix, 173
Conduction anasthesia at time of del very for protectes

Conduction anaesthesia at time of del very for protects of the permeum E PRIBRAM Zentralb) f Gynack, 19 8, lu 1447 The rectal administration of avertin for the ribd of

birth pains Horstvo Zischr f Geburtsh a Gynack, 1923 xcm 537 Manual dilatation of the cervix in abnormally delayed

fabor M vn andečić. Zentralbi f Gyosek 1918, lis 1349 The rigid and stenosed cervix in the first stage of labor

A MATHEU and G C SCHAUFFLER Am J Obst. & Gynec 1928, xvi 390

The changing relationship between the form of the but and the course of labor E Westerstrz Arch i Gynut.

1928 CERTIV 353
Deflexion attitudes F Descrit Zentralbi f Gynick

1928 lu 1653
The diagnosis and management of occiput posteric
cases P Sr L Moncorre Virginia M Month 1928 le

448
O ciput posterior positions and their treatment M S
Signet. Northwest Med 1918 xxvii 489

On positio occipitalis sacralis an Trvort Jup J
Obst & Gynec 1928 zi, 199

When to do a version in uncomplicated trans crit positions E Sacus Arch f Gynack 1928 exxiv 44 Injury to the head and practical obstetrics R T vov Inscript Arch f Gynack 1928 exxiv 1

The mentgen dia nosis of hydrocephalus at the berning of the stage of dilatate n G Acravo Zenira M. f Gynack, 1927 li 2793

Delivery of a ra e deformity (dicephalus iribrathas)
F krauss Zentralbi f Gynack 1918 ln, 1975
The unfavorable sequelæ of high forceps (uterne rup

ture air embolism dislocation of the pelvis tears of the bladder and their prevention) O vor Fra out Mid-Klin 1938 rriv 401 The long labor H Balley Am J Obst & Gync.

The long labor II BAILEY am J Obst & Gyar 1928 2VI 324
Measures for the prophylactic preservation of the I

tion of the perincum 1) vov Orr Zentralbl f Gynad 1938 lu, r 64 Rupture of the vaginal portion of the uterus during labor B Gyorat Orvosi hetil 19 8 lini, 502

Central rupture of the cervix as prerequist es a decisequences P Caprier Zentralbi f Gynack 1918 14, 1700
Injuries to the lines of union of the pelvic bones during

labor A Garrier Ginekol polska 1918 vu 10
The prognostic si, inheance of fever during labor f
Seigerr Zentralbl f Gynaek lu 615

A case of betructed labor due to malagnant disease of the sagmoid colon. H. H. Evers. J. Obst. & Gynze. But. Emp. 1928, xxxv. 525

Intraperatoneal life-endangering hemorrhame during labor A rare indication for casarean section W. Bacsus Zentralbl f Gynaek 1918 lit 1847

labor | Horse Can | Contract | [144] Zentr

Adenovarcinoma of the kidney S GARDINER Med I Justral a 1928 11 439

Conservative ki incy surgery W I LOWER an I G W BELCHER Am J Surg 1928 v 101 Di isien of the kide y without secondary hamorrhage ROSENSTEIN Zentrall I f Chir 1928 lv 1427

Renal sympathect my I Hrss J Urol 1929 xx 333 Some of the accidents of renal surgery N P RATHBLY 1 br 1 1028 XX 427

Complete duplication of the ureter and nenhropyclitis D Lapper Riforms med 1928 xlis 1102

Atomic ureter simulating prostatic hypertrophy BIATT an IR I SCHAIS Zischr f urol Chir 1028 xxiv

Sten sis and atresia of the vesical ends of the ureters C HLETER Ztschr f urol Chir 1929 xus 381 I mature of both ureters of struction relieved cure M LAPIN Bull et mem Soc nat d chir 1928 hv 1026

A new irrigating preteral bought. A RAVICIT I Urol. 1918 11 517 A special catheter f r ureteropy lographic study and

asept: catheterization of the ureter S R Woodrers I Úr l 1029 xx to Heal ng of a ureteral fistula following irradiation of the

krines 1 KLEIN Strahlentherapic 1928 lit 1500 I xtrapent neal preterovesicostomy by a simplified technique for ps toperative uretero abdominal f tula DrN Stettes Am I Surg 19 8 v 3 5

The diamo is of preteral calcula A FULLERTON Brit M 1 1023 n 327 An unu ual ca e of ureteral st ne II WILLIAMS and

C T HOLLAND Brit M J 1928 11 601 Three cases of papill ma of the ureter ureterectomy sul equent to nephre tomy for papilloma of the renal pel is Sir J Thou on Walker From R y Soc Med

lant 1018 xx1 1500 A pe imen of papill war in ma of ureter from a male St. d 58 J B MACALPINE I roc Roy Soc Med Lond 1928 XXI 1552

Bladder Urethra and Lenis

Vabrinou body f und in the peri esi al ti uc. C. V. I NITER Proc R v Sor Med I nd 1928 xtl 1890

I new impredex to p A Ka icit I Und 1928 XT 511

Foreign to Iv in the bladler H W Menner Bit M 1924 11

I reim body in urinary bladd r report of a case Will Harr Jirl 1928 v 40

Removal f fo ei n be fies fr m th Hadler () BRILL MIN Zentralbl f (nack 19 % lu 1 51 The t harque I stra tas hairpins from the blad! r

W St wart & ntrall I Cyn ck gas In 1 50 The relation of thad fer pressure to that it r function Witnessen J Am M V 9 4 x 2

The eti logy i e i al ten mu l lin in Zentralbl 1 (vn ch 1928 lu 545 I roll me I thald r neck I tru to n J k Catal

Suth 15 3 5 x0 V0 Ven al de to lum ntaining large number f alculi

a w rated with impa ted urethral al uli res fit unnary e travasati n int the s rotum W (STIRLING and J C V and v Am J Sure to 12 line light alstudy ith puerper Illiail r II L

Kr rutt Am J Ol t & Cynet 1328 25 04 [153] Cystin S I KRURE J Med Sic S Jersey 1928 [153] 10 //1

Cystatus C C Wood Lentucky M J 929 xxv1 503

Cysts of the posterior wall of the bladder F ALTHANN Atschr f urol Chir 1028 xxiv 438 Tumors of the bladder A L CHLTE Am J Surg

11531 10 S V 217 Vesi al fibroma I' C Surrii Canadian M Ass J

1928 MR 444 Sarcoma of the bladder two cases C T STEPITA Am Surg 1928 V 406 Endovesical thermocauterization new indications new

operative methods and new instruments Bi RG Ergebn d Chir u Orthop 1928 XXI 271

The formation of a urethra from the blad fer in a woman following its complete destruction > MARKOFF Gynec

et of st 1028 vsin 6 Observations upon the treatment of stri ture of the urethra with particular reference to electrolytic dilata R Sanaticci Policlin Rome 1928 TEXV Sez

prat 1582 The electrocautery in the treatment of chronic anterior urethritis of the glandular type I E McCREA I enn] 1928 xtx11 0

Treatment of chronic posterior urethritis prostatic hypertrephy and allied conditions by electrotherally C H HILLIP South M & S 1328 xc 669

A new meatotomy knife A HARRIS J Am M Ass 1028 XCI 726

Priapism R I' VN DUZEN J Urol 1928 XX 407 Angioma of the glans penis report of a case T GIBSON I LITOL 1028 XX 501

Genital Organs

Newer vi wa on the biology of the male sexual glands B SLOTOPOLSKY Freebn d Chir u Orthop 1028 XXI

10. The action of serum from pregnant women on the male genital tract (contribution on the question of the anta onism of the sex hormones) E FELS Zischr I Ceburtsh u

Cynaek 1928 xciii 50 The value of vas injection in chronic genital infections based upon a series of seventy five cases T BAKER

Leol 1028 XX 227 Male genital tuberculosis A T Oscoop Am J Surg 1025 1 2 2

Chronic prostatitis C II GARVIN Ohio State M ! 1029 XXI 018 Syphilis I the prostate report of a ase L W RIBA

im I Syphilis xii 528 The question f vasolication in prostatic hypertrophy

WERNATH Zentralbl f Chir 1928 lv 200 Ir ogres of prostati surgery I'll Santoan I Mussouri State 11 1. 1928 x1v 466

Improvements in perincal prostatectomy permitting primars wound closure and healing without drainage. T

GIB ON Surg Cymee & Obst 1928 xlvu, 531 Bilateral ligation of the was as a prevention of epididy

mitis in prostatectomy H W Mckay South A method for the control of hamotrhag after supra

m 1929 vut 1123 Non gonorrhead non tuberculous epididymitis M F. CAMPRELL Am J M Se 1918 class 380

Calcium chi ni in the a liuvant treatment of epididy

mitis Some clini 1 of servations and results following the I intravenous injections | Ripel Am J M Sc. 1924 clarvi 399

a comparison of the results of various treatments for acute gonortheral epid fymitis E Stove J Urol 1925 11541

Miscellaneous

What is needed to improve the practice of obstetrics? R McCorn J Med Ass Georgia 1928 EVII 440 Preliminary report of a method of summarizing obstet rical charts J E TRITSCH Surg Clin N Am 1928 viii

The coagulation time of the blood in obstetrics F \tiku

Jap J Obst & Gynec 1928 xt 200 The action of post pituitary principles on the blood F R CURTIS and J W PICKERING Lancet 1928 CCRV 605 Symmetrical gangrene of the lower extremities following the administration of ergot L. GOLDBERGER Zentralbl

f Gynack 1928 ln 1573 The biologi al aspect of the falling birth rate F A E

CREW Brit M J 1928 11 477 [146] The economi aspect of the falling birth rate w ROBERTS But M J 1928 H, 479 11461 The medical aspect of the failing birth rate Sir T

HORDER Brit M J 1929 B 453 [146] Indications from statistics on the falling birth rate LADY BURKETT BERT M 1 1928 H 48c

Frequency of pregnancy infant mortality and miscarriages interrelationships I Rosentitat Delisary irch f Frauenk u Konstitutions-forsch 1928 ziv 1

Maternal fetal and neonatal mortality in V prests L M Miles Minnesota Med 1918 11,000 The prevention of maternal mortality in Mantola. R MITCHELL Canadian M Ass I 1028 Mr 202

Deformities of the pelvis following acute policer class W SZENWIC and H ADELFANG Ginekol polska to 8 ra

The narrow pelvis II Batture Ztschr f Gebrish a Gynack 1028 rent 462 The problem of the internal secretions (including the placenta) in the li ht of interferometric diamous K.

HELLMUTH Verhandl d I internat Kongr f Sensi forsch 1928 n 110

Lues in mother and child Herverts 1928 Stuttest, Enke The early recognition and treatment of lues in mother

and thild as a social by sen c problem E Purity Zischt f Geburtsh u Gynnek, 1028 zcm, 443 A new method of sol ing the question of the determine

tion of sev O SCHOENER Zentralbl f Gynack 1919 h New methods of solving the problem of the determina tion of sex K. HELLMUTH and W. Schmor Zentraibl f. Gynaek 1918 ln 1067

GENITO-URINARY SURGERY

Adrenal kidney and Ureter

Suprarenal renal heterot pia report of a case H D 11491 CAYLOR I Urol 1028 xx 107 Addison's disease in the negro Report of three cases L S I VANS Am J Med Sc 1918 claves 499

L S I VANS Am J Med Sc 1918 claves 499

B CAPOV

Path & Bacteriol 1918 xxvi 659 The effects and results of suprarenalectomy in gangrene

of the extrem ties J HERTZ Bull et mem Soc nat. de chir 1918 liv 954 [149] Permephritic and paranephritic abscesses T BOTTARI

Policlin Rome 1928 txxv sez chir 417 Infantry bullet in the pelvis of the right kidney I vov Szané Zischr f urol Chir 1928 xxiv 596

Ruptured kidney E P Gotto Proc Roy Soc Med Lond 1928 xx1 1863

Traumatic rupture of the left kidney case report HARRIS I Urol 1928 XX 193 11491 Traumatic rupture of single remaining kidney Mrs.

CHIOR Zentralbl f Chir 1928 by 1553 The tolerance of the kidney of trauma and infection W Bancock Surg Clin N \m 1928 viii 791 [150]

The functional value of the phenolsulphonephthalein test on the basis of 204 determinations J Mindex Zischr f urol Chir 1928 xxiv 288

Hydronephrosis R ANDER Erg bn d Chir u O thop to 25 XXI 102 Acute hydronephrosis Report of a case J B HAINES

I Urol 1918 XX 458 A case of unusualty large hydronephrosis ADLER RACE Zischr f urol Chir 1928 xxiv 578

The diagnosis and management of horseshoe kidney M ZONDER Zentralbl f Chir 1978 lv 1432 The roentgen picture of h rseshoe kidney A KAMPFER [150] Radiol med 1928 xv 684

Horseshoe kidney Schillings 1928 Louvain Société [150] Scientifique de Bruvelles The surgical pathology of malformations in the kidney and ureters J E Davis J Utol 1928 XX, 155

The surgical pathology of malformations in the hidreys and ureters J E Davis J Urol 1928, Ex 281 Surgical therapy in diseases of double kidneys

HECKENBACH Zischt f urol Chir 1928 xxiv 361
Importance and interpretation of kidney function tests. M PATTERSON South M & S 1928 xc 665

The arterial tensi n in the examination of the renal function M Sorgevino and B Sorgevino Riform med 1928 xhv 1114

Studies in the Rehn acid alkali test H Herss and C. LAGEMANN Zisch f urol Chir 1928 XXIV 501 The present trend of thought in regard to k doey function

and diseases L A TURLEY J Oklahoma State M 4ss. 1928 XXI 273 Two unusual cases of kidney disease A L Drus Ja

Surg Clin N Am 1928 vin 1135 Pyclonephratis and urethral obstruction C Porret Am J Surg 1928 v 286

Pyel tis of infancy and childhood J L. BLANTON V ginia M Month 1028 lv 479 Non surgical renal tuberculosis R GUTIERREZ Am

Surg 928 v 99 ephrolithmsis Report of a case L F MILLERY J Urol 1928 xx 456

Large renal calculus Report of a case H 1 R ARETT MANN Am J Surg 1928 v 360 Enormou branched renal calculus with multiple 1786-

of the kidney B A THOMAS J Urol 1918 XX 455 Some rema ks on the technique of removal of renal stones E BEER Ztschr f ur 1 Chir 1928 xul 651 Pyciohthotomy compli ated by gas bacillus infection originating in a enal calculus P A FERRIER and W P

BLISS J Urol 1928 XX 4 1
Renal neopla ms 1 HYMAN 1m J Surg 1928 v Certain clinical and pathologic | aspects of renal male

nancy with aix autopsied ca es B C Russem and F A Netsius Nebraska State M J 1928 km 382 Sarcoma of the kidney Report of a case W. H. TROMAS.

Urol 1928 xx. 460

Osteomychtis Martens Zentralbl f Chir 1028 lv 1617 Report of a case of sclerosing osteomyelitis associated

with trichinosis G L BENNETT and J V HOPKINS J Bone & Toint Surg 1928 xxv1 834 The disphyseal growth of the tubular bones in epi

cxln 454 Treatment of epicondylitis I FREY Wien med

Wehnschr 1028 Ixxviii 764 O teochondritis disserans M J German Radiology

1928 11 115 I recently described disease of the skeleton melo recotosis A Lent and J A Lièvre Rassegna internaz

diclin e terap 1028 17 621 Radio raphic manifestations of syphilitic diseases of

bone I I SANTE Am J Syphilis 1928 xii 510 Some cystic appearances in bone J M REDDING Froc Roy Soc Med Lond 1928 xx1 1867

Giant cell tumors of bone in a fowl S L BAKER I Lath & Bacteriol 1928 xxxi 657

Trauma and development of bone sarcoma P STEPH ENS \m] Surg 1018 v 364

Invasion of hone by periosteal sarcoma I roc Roy Soc Med Lond 1928 xx1 1865 Arthritis J A MACGREGOR Illinois M J 1928 liv

Gonorrhoral arthritis M B Cooperman Am 1 Sure [156] 1028 V 241

Material from lymph nodes III Gonococci from lymph oid tissue in a case of chronic infectious arthritis C E LURENER Bull Johns Hopkins Hosp Balt 1928 xlus

Suppurative arthritis E I Donovan Am I Surg 1014 Y A10 The reacts n of pant exudates and technique of measur and it and the role of acids in the ausation of arthritis

deformans C ILVEBLER Deutsche Zischr f Chir 1928 CCIT 211 In experimental study of muscle atrophy R K Lipp

MANN an 15 Selio Surg Gynec & Obst 1928 zlvii 512 Myositis ossii cans following suprapubic prostate tomy

II I KRETSCHMER J Urol 1928 xx 477

Myo itis ossificans prigres 1 a J V C Bratten aire

Ir Roy Soc Med Lon1 1928 xx 1838

Traumats sarcoma of muscle following blunt injury I Barress 5 hwere med Wehnschr 1928 lyrt 521 A study of ganglion with special reference to treatment Carp and \ 1 Stout Surg Cynec & Obst 1928

2ls 1 460 Some cripplin, conditions and their treatment. L. O. Burrs, Med. J. Sustralia 1928 ii 483

Leontiasis ossea I Citi and Beitr z klin Chir 1918 ctl : 552 The anat my of cervi al nl with report of a case

I W Riches But J Surg 1928 214, 235

Some observations in the scapulæ of the Chinese II D Aren Arch Int Med. 1928, slu 503 Contusion and distorsion of the shoulder and their late sequelz. M. Dunots. Schweiz med Wehnschr. 1918. hii 575

pren el s deformity H HEIDECKER Zentralbl f Chur 1928 1 1 /8 Sprengel ad f muity I I RIEDWAN Arch Pediat 1918

alv 611 Scaph of scapula, II. V. Keur. J. Missouri State M. 1018 XXV 4

The final word on the burse of the shoulder y att. R Mars Zuschr f Anat u Entwi klung oesch 191 Inniv

Arthritis of the acromioclavicular joint diagnosis and treatment ERKES Zentralbl f Chir 1028 lv 1567 Humeral varus due to spontaneous rupture of bony evats of the metaphysis L STROPENT Chir d organi di movimento 1918 XII 531 Fibrocystic disease of the left humerus showing spon

taneous cure R S Lawson Proc Roy Soc Med Lond 1028 XXI 1851 Strangulation of the long head of the biceps H HANS

Zentralbl f Chir 1028 ly 1675 Spontaneous dislocation and destruction of the tendon

of the long head of the breeps brachu fifty nine instances A W MEYER Arch Surg 1928 xvn 401 A case of myositis ossificans circums ripta in the muscu lus brachialis S ARNELL and R RUBEN Upsala lackaref foeth 1928 XXXIV 343

I revention of adhesions to tendons in the hand and wrist with the report of two cases G D MARSHALL I Bone &

Ioint Sur. 1928 TXVI 816

s pseudotumor of a flevor tendon of the hand (partial duplication with striated muscle) FSAU and HLECKEL Deutsche Ztschr I Chir 1028 CCIX 270

The range of active motion at the wrist of white adults II M Cone I Bone & Joint Surg 1923 x 763

The range of active motion at the wrist of women D HEWITT I Bone & Joint Surg 1028 XXVI 775

The treatment of necrosis of the lunate bone I PARTSCH Zentralbl f Chir 1028 ly 1280 a simple apparatus for treating ankylosis of the wrist

L WEISZ Hygeta 1928 xc 413 A practical metal finger splint E GLASS Deutsche med

Webnschr 1028 hy 1121 Expansion and tears of the intervertebral fibrocartilages

and the changes in them and in the vertebrie caused by them SCHMORL Zentralbl f all, Path u path Anat 1027 xl 250 26. Rupture of the ligaments between the occuput and the

cervical vertebræ Butt z genicht! Med 1928 vin of The development of the vertebral column during the seventh and the eleventh year with particular considera tion of scoliosis based on studies in the Zurich city school for 1927 I Stiberschwidt Schweiz Zischr f Gesund

The development and prevention of scolious | I' Baura Muenchen med Wehnschr 1918 lazy 1027 Trapezius defects Contribution on the development of

s oliosis Schulze-Gour Arch f orthop u Unfall Chit 1928 xxv2, 301 Lital capacity and muscle study in 100 cases of scoliosis

1 E FLAGSTAD and 5 KOLLMAN I Bone & Joint Sure 1028 XT11 724 Nyph sis after tetaque M B Varne Indian M Car

1028 Dan 182 takin si intercertebralis I P Ricrest and S Keijsen

hederl Tijdschr v Geneesk 1928 lazit 1472 The rade unit syn frome in hypertrophic osteo-arthritis of the pine L GENTHER California & West Med

1028 XXIX 152 Acute and subacute osteomy clitas of the vertebra A

Percey Medicanski predled 1927 in 192 Vertebral perithelisma R Zanoli. Chir d organi di m umento 1918 xii 500

Longenital anomalies of the sacrococcygeal region caudal appendages and paracoccygeal fistulæ 1. TRIVEL-

Rare tumor of the sacrococrygeal region Risas Zentralul f Chir 1928 lv 1300

concental malformation of the pelvis and lower ex tremities R. S Lawson I roc Loy Soc Med Lond 1038 EXI 1810

The roentien therapy of gonococcic orchido-epididy mitis M Lapenna Policlin Rome 1928 xxxv sez prat 1540

Primary adenocarcinoma of the epidulymis Scholl J Am M Ass 1928 xci, 560

SCHOLL J Am M Ass 1928 xci, 560 [155]
Experimental studies on plastic operations on the deferent ducts II Outline of methods of anastomosis between the ductus deferens and the testis following epidalymec

tony M Gotto Arch f japan Chir 1938 v 491
Experimental studies on plastic operations on the deferent ducts III Contribution on methods of suture of the ductus deferens M Gotto Arch f japan Chir 1938

The internal secretion of the testis G Peraccura Archital di thir 1028 xxi 686

A case of carcinoma of an undescended testicle with cerebral metastasis E Goldstein and B S Barringer Surg Clin N Am. 1928 vid 1113

Observations on plastic operations on the testis for re juvenation purposes E Horner Wien med Wehnschr 1928 Irvyin 804

Varicoccle a study of five hundred cases M F Camp BELL Surg Gynec & Obst 1918 xlvii 558 Rupture of a varicoccle from indirect trauma A Lehra

BECHER, Zentralbl f Chir 1928 ly 1615

The function of the scrotum and the treatment of un descended testis in man. R J HARRENSTEIN Zentralbl f

Chir 1928 lv 1734

Miscellaneous

Handbook of urology Vol 3 Pt 1 Special pathology and treatment of consential deformaties. Injuries to the urnary and ser organs. Disturbances of bladder function Nephritis. Eclampsia Inflammatory diseases of the urnary and ser organs. A von Lichtenberg F. Voetca.

ER and H WILDBOLZ 1928 Berlin Springer
Urological diagnosis and treatment for students and

physicians H Boeminghats 1917 Jena Fis her The upper urmary tract in the differential diamnosis of abdominal emergencies T H Sweetser Minnesota Abdominal diagnosis and the prologist D \ Distribution DRATH J Indiana State M Ass. 1918 EX. 451
Pneumo-cysto-precipy pyelograph with the report of a case B A Thomas J Urol 1918 EX. 461

The value of the xanthoprotein reaction indepretentive blood in urology B Mexic Zischr I urol Chr. 1915 xxiv 531

The significance of the blood-cholesterol in gento-unsary surgery J Maxwell Birt J Surg 1928 xn, 26 Observat: as on the flora of the male gential that in disease N M Gissoy and C J Writy Med J hardings of the male gential that in disease N M Gissoy and C J Writy Med J hardings of the manufacture of the second second

train 1928 ii 433
The prevalence of syphilis and gonorrheea. A Preurin and H W Curanyos V Lork State J M 1918, and

1147

**Modern treatment of gonorrhout H W E Watters

**Lew Orleans M & S J 1928 lxxxx 199

**Conditions of the property of class 199

**Conditions of the property of the property of class 199

**Conditions of the property of the property of class 199

**Conditions of the property of the property of the property of class 199

**Conditions of the property of the

Oral therapy in gonorrhox and other unnary infection is L Wolferst Med J & Rec. 1918 extrus 173
Ulmary lithiasis Presentation of three cases. W J
Linesson J Urol 1918 xx 462

The disgnosis of urinary cal uli H A Gatter Atlanta M J 1928 XXXI 935 The etiology of urinary calculi D P Ray Atlanti M

The cissacy of growth of urinary calcul. A RADOUL
Atlantic M J 1928 xxxl 937

The treatment of urmary calculi W L Estis Jatilantic M J 1928 XXXI 940 Enursess E H M Stephen Med J Australia 1918

is 502
I arathyroid extract Collip as a duretic R J Rantiti
and C T STONE J Am M Ass 1928 121 1288
I yuna in children the use of the cystogram C.F Mc

Hanny Am J Dis Child 1918 retry 318 1858
Hanny Am J Dis Child 1918 retry 318 1858
Hamatura and pyuna O J Windelm J Vissem
State M Ass 1928 xxv 468

Hæmateporphyneura with symptoms of neus. F Landenskrökeld Finska laekaresell kapets hand 1972 km, vit A case of chylura due to filara bancrolu with lyry varus in the bladder wall R Mackeville Canada. Mass J 1925 km 478

SURGERY OF THE BONES JOINTS, MUSCLES, TENDONS

Conditions of the Bones Joints Muscles Tendons Etc

Physiological chemistry of agein, tissues I Studies of human costal cartilage M BURRORR and G SCHLOMKA Zischi I d ges exper Med 1927 by 287 Chondrodysplasia M CLEVELAYD Surg Gynec &

Chondrodysplasia M CLEVEL Obst 1928 zivu 339

Med 1028 21 684

Ossification in cartilaginous e ostoses C L Weber Arch I orthop u Unfall Chr. 1913 xxvi. 153 Multiple cartilaginous exostosis P DCENO Arch de med crug y especial 1918 ir 585

The vascular channels in growing cartilage Histricine
Anat Anz. 1927 Isin 59
Chondro-osteomatosis Knoblicit. Zentralbl f Chir

Chondro-osteomatosis knonticit. Zentralbi i Chir 1928 iv, 1689

Bone formation and the esteoblast H. 1 HARRIS

Lancet 1918 ccxv 459

Does periosteum form bone? L S Grist J Bone &

Joint Surg 1928 xxv1 716
The repair of ossessis tissue from a macroscope standpoint I A Arvoid Kentacky M J 1928 xxv1 510

A method for the microscopic study of the growth of transplanted bone in the transparent chamber of the rabbit sear J C Sandison Anat. Record 1923 if 41 Ostrogenesis imperients R S Law on Pro Roy Soc

Med Lond 1928 x11 S51
Osteogenesis imperfecta J V C Braitin aire Proc.
Roy Soc Med Lond 19 8 x11 S51
Osteogenesis imperfecta E Klaptes Zis-fir f Ge

Osteogenesis imperfecta E KLAFTEN Zischr f Ge burtsh ii Gynaek 1928 zeiii 67 Ostenogenic etostosis J CASTRO Bol Soc de Civil

de Chile 19 8 vi u

Buried fore gn bodies in bone F Koento Zentralbi
f Chir 1928 lv 897

Chir 1928 Iv 897
Bone diseas W W HELDEN Radiology 1918 10, 281
Pseudorachitic disease cond tions W STORLITHIE

Schriften d Koenigsberg gelehrten Ges naturwas Kl 1947 iv 2 5 ason 1 anation of the antirachutic effect of suns unt II F F THOALL and A BROWN Am. J D's Chid. 1915

II F F TISDALL and A BROWN Am. J De Child. 1915.

EXXVI 714

Hereditary osteo-arthropathy with recessive that
acteristics II R SCHILL and A FURTWARLGUER Deutsche

Ztschr f Chir 1928 ccvii 398

The bactericidal action of various metals upon certain or anisms in relation to metallic internal fixation of tissues J F Ruch J Bone & Joint Surg 1928 IXVI 722
Dislocations of the shoulder E C PARKER Internat

Med & Sure 1025 all 454 Active mobilization following reduction of fracture dis

location of the shoulder C R MURRAY Surg Clin N \m 1025 VIII 1060

Fracture dislocation of the shoulder the relation of soft parts to restoration a new method of treatment R T TAYLOR Arch Surg 1928 XVII 475

Operative correction of old sternoclavicular dislocation C I I OWMAN J Byne & Joint Surg 1928 XXVI 740 Cross banda e for treatment of clavicular fracture

SCRELL Muenchen med Wehnschr 1929 lusy 730 Supracondylar fractures of the humerus L THORNTON

J Med Ass Georgia 1928 xvii 440 Criti al observations on the pathogenesi and reduction of posterior dislocations of the elbow P Graf Deutsche

Lischr I Chir 1928 ccix 275 Isolated volar dislocation of the head of the ulna E Stechtup Zentralbi f Chir 1028 ly 1742 Fractures of the forearm W & GRACIE Internat I

Med & Surg 1029 zli 485 Fractures of the base of the radius I Conv. South

M I 1928 XVI OI I clinical and experimental contribution on the study of traumatic lesions of the carous. A Royant Arch ital di chir 1028 xxii r

A contribution to the stuly of molate I fracture of the carpal scaphor I due to direct injury \ FERRERO Chir d

organi di movimento 1918 zii 525 I racture an I dislocation of the sternum II II HOLDER MIN Ann Sure 1028 Inxxviii 252 11581

The treatment of subcutaneous rib fracture Martayrschik Zentralbi f Chir 1928 lv 1171 Sicro iliae d placements F G Hongsov South M

1928 XXI 820
Traumatic rupture of the pelvis M Hajkis Med rev 1927 xliv 660

Spontaneous fractures of the pelvis I Totu Goggás 23t 1918 Will 414 I ra tures of the celvis with separation of the symphysis

puber II II HOLDERMAN Lenn M J 1928 SETH 15 I ate to ults of bone transplant into the upper border f the acetabulum II Serrey Zentralbl f Chir 1028 ly

Injury to the trochanter minor and the Ludloff phenome n n W Streener klim W huschr 1928 vii 123

Fractures of the femur W H BLAKE JR Internat J Med & Surg 1928 xlt. 4 9 New roentgenographic demonstration of fractured neck

of the femur H B PHILIPS Am J Surg 1928 v 392 Ununted fractures of the femur W W Harper Internat Med & Surg 1928 vl 4,8

Treatment of uncorrected deformity in fractures of the shaft of the femur C L WILMOTH | Bone & Joint Surg

1928 XXVI 91
Femoral fracture treated by the bone key method G A Hexpox Kentucky M I 1028 xxv1 508

Voelcker s operation for congenital an I habitual di loca tion of the patella & Laota Med Alia 1928 xxiv 695 Fractures of the leg and ankle \ I orrescu Heitr z

klin Chir 1928 cxlin 29 Volkmann's triangle F Weydr Zentralbi i Chir 1028 by 1608 Ton sin the treatment of fractures of the tibia and fibula

G 1 LCKERT U S Naval M Bull 1928 XXVI 911 Fractures of the ankle F D Dickson J Am M Ass 1028 XCI 845

Orthopedics in General

Outline of orthopedics for school and instituti nal physicians. Introduction to orthonodics for students and physicians & CACGELE 1918 Stuttgart Tike
Constitutional pathology in orthopedics Biological he redity of the organs of locomotion B ASCHAER and C

INCELMANN 1928 Berlin Springer

Salient points in the treatment of infantile paralysis A II BREWSTER Teras State J M 1928 XXIV 422 I lastic material for orthopedic apparatus \ Reverpin i son chur 1028 xtv 500

A simple frame for the application of plaster to the body in extension W Exclesion Muenchen med Wehnschr 1028 ltgv 481

Alteration of the Bradford frame R G PACKARD and

II I BARNARD Colorado Med. 1928 XXV 309
Two splints in use in the 14th Avenue Hospital D.
GORRON Surg. Clin. A Am. 1938 viii. 1963
An adjustable spring crutch. I Lewin. J. Bone & 1 int burg 1928 xxv1 819

I han I drill for placing wire extension S Jonansson Zentralbi f Chir 1928 lv 1345

Remo al of casts L I Barnes I \m M \ss to 18 XC1 1287

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Blood Vessels

The blood vess 1 | f the human skin and their behavior toward critate n T I E vis 19 4 Berlin Karger A previously undescribed painful syndrome following the ligation of a large artery R LERICHE Presse mid Par

1018 XXXVI 1223 Luaix n of the artery and concomitant vein in operate as on the large I lood vessels I \ THEIS. Arch Surg 1918 N 70 244

[159] Arterial anastomosis J McLeon J South Carolina A / 1018 xx1/ 215 Suture fat m brachulartery J House Norsk Mag

1 1.merulensk 1924 Ixrus 404 had um treatment of vascular næst in infants & S STRIKER. J Missouri State M Ass. 1928 REV 417

Hot water injections for angiomata E Moses Beitr z

klin Chir 1925 cxlu 753 Muscular cavernous harmangs ma of unusual location

\ Lo Cascio \nn ital dichir 1928 vii 755 The electrophysical treatment of cavernous angumata

1 Horrways Klin Wchnschr 1928 vii, 804 I ostoperative thrombosis and embolism W Lirrett

Win kin Wehnschr 1928 al 504

Th temperature effect of popt teal vein ligation in thrombo-am, its obliterans and arternoclerosis. J. J. MIRTON and H F I EARSE, JR Ann. Surg 1918 laxxyin

159 Temporary occlusion of the mesentene arteries At vrzes Deutsche Zeschr f Chir 1929 ceix 56

Counctain n of the acrts L M BLACKFORD J Med 145 Georgia 1929 35il 462

The statics of the defective hip joint & Sayl. 26 hr f orthop Chir 1928 alia 1959. Further observations on the operative treatment of Legg Perthes disease R Whitman Am J Surg. 1928 V 185.

Epiphyseal cova vara M. k. Surrit. Im. J. Surg. 19.3.
387
A case for diagnosis. Fibrocystic disease of the femur.

A case for diagnosis Tibrocystic disease of the femur S SLOWE Proc Roy Soc Med I and 1918 Xu 1855 The importance of recognizing rupture of the quadriceps tendon and its treatment for the gen ral practitioner L PRANENTRIAL Munchen med Winnskir 1918 kmv

563

Bilateral subcutaneous rupture of the quadriceps tendon

S FREY Deutsche Zischr f Chir 1918 ten 284

Subcutaneous rupture of the biceps flevor cubits Report

Subcutaneous rupture of the biceps flevor cubits Report of one case H E CONWELL J Bone & Joint Surg 19 & 1311 788 Riders leg D F Winy Mil Surgeon 1029 Jun

507
Bilateral genu valgus and endocrine changes D Tadher
Policlin Rom 1928 xxxy sez prat 1627

Genu varum and valgum in infants M Borns Ztschr f orthop Chu 1928 xlix 321

Internal derangement of the knee joint JF M Thom 50N Nebra ka State M J 1928 201 3 8

The treatment of ankylosis of the ankle E Weisz Svenska Lackartidningen 1928 xxv 610

Dutschlaender a disease of the metatar us A GREIFEN STEW Deutsche Zuschr f Chir 1928 ccix 350 Bunions J W LOWERS Wi cousin M J 1928 xxvii

Congenital bilateral hallux valgus HELLER Ann Surg 1928 IXXXviii 798 Hallux flexus (or ngidus) H Thiner Nederl Tij lichr y Genevik. 1928 IXXII 2781

Surgery of the Bones Joints Muscles Tendons Etc

Thirty sixth report of progress in orthoped c surgery P D Wilson I T Brown M N Suttle Petersen R Ghornley M S Dinforth and H C Bucholz Arch Surg 19 8 1911 689

The late results of bone resection for rachitic d formities W SCHMIDT Deutsche Zische f Chi 1918 ccrs 310 The conservative treatment of ostenti fibrosa Brandes Zentralbi f Chir 19 8 lv 1193

Should the me fullary cavity be chiseled out in the acute stage of osteomyel us? A BUZELL) Therap d Gegenw 1928 Lu. 204
The diagnosis and treatment of surgical tuberculosi in

early childhood J O Wallace Atlantic VI J 1928 XXX 947 Experiences with various methods of treatment in bone and joint tuberculosi. R AYRALICO Actapaed at 19 8

un Sur pl 2 173
Operati e procedures for surgical tuberculosis of th
bones and joints 3 Chillia ky Slovansky shornik ortop
1028 in 45 49

The treatment of fibroperosteal sar omata by physical agents BERARD Lyon chir 19 3 270 463

The sensitivene s of the skin over amputat on stump E Wolff Zischr f orthop (hr 19 3 x 12 21 When and how should stiff 1 ints be mob lized? J Hass Ware skin Wehnschr 919 th 406

Muscle tran plantation for deltoid paralysis G Reddel.
Figelin d Chir u Orthop 1938 x 1 4 8 2
Ulnar paralys s a new operation L Porres Med
J Australia 1938 ii 498

Report of pedun-ulated finger plasty Whene Zentall.

f Chir 1978 by 1961

I openen is with surgical orthope is treatment of spin
infantile paralysis KORZEBORN FORSICH d Thomp
1978 in 40 144

The autogenous bone graft in pondylolathess F R

Bone key operation for fusion of se to since just LD I al ERTL. J Bone & Joint Surg. 1918 vov. 13
Shelf operation two cases. A Whiteva Am. J Sur. 1938. V. 411
La Additional report troop as constitute for stablem.

ALBEE Raiology 1928 x1 340

An additional report upon an operation for stabilizar, paralytic hips F D Dicasox J Bone & J int Sizz

paralytic hips F D Dicasox J Bone & J int Sir.

10 S xxvi 12

The diagnitis and end results of tuberculosis of the hip
point C I O Brown Med J Australia, 1918 u, 10

The treatment of tuberculous disea e of the hp of Taxtor Glasgiw M J 1928 cx 129 Fransplantition of hamstin tend n for patalysis department of the control of tuberculous districts.

quadraceps extensor R O RITER Illinous hi 3 19 19 18 284

The permanent results of supra ondy far weef exceeding of the fermur for genu valgum with some remarks on the chology and pathology of this deformity If ficere 2

Deutsche Zt chr f Chir 19 8 ccx 394
The stripping of the 08 c lcis A Strivbick SurGynec & Obst 1928 vivu 523
A conservative operation for bumons E D McBane

J Bone & Joint Surg 1928 77 1 735

The operative treatment of hallux value W B Coo

PERMAN Med J and Rec 19 S CRY 11 3 9 The development of and operatin for hallox vales. A Budoo Fentralbi f Chr 1918 h 1535 Healang of the operative wounds in cases of hallox valgus N Welleying Cantralbi f Chr 1918 bt 1 9

Fractures and Dislocations

The operative treatment of fresh traumatic di locations
MACVUS Zentralibl f Chir 1978 lv 1197
The interpritation of fra tures in X-ray films (R.
SMITH Internat J Me? 8. Sur- 1978 xl 487
Histoi giral study of the retra, res we chan es in factured b nes. W. Centilez Deutsche Ziecht f (hr. 1918.

Specim as from a case of pontaneous fra tures \ D
DOHPRYY Proc Roy S c Med Lond 19 8, rn,
1805

1865
The possibility of blood chin es in fractures a contribution on purpura. C. L. FRENCEFEE and R. I. Gawanow.
/ nt afbit Chir. 1918 1. 1997

Wel h bacillus inf ction c mpl catin c mpound fracture N k. Berr v Am J Surg 1918 v 345

Fracture treatment tiday (L SCUDDER A lott
Stat J M 9 8 xxviii 1763

Stat J M 9 8 xxviii 1103
The treatment of fra tu es F T Newell Internst
J Med & Sug, 10 8 xls 471

M na mert of sme unusual fracture M J Parce Virginia M M nth 028 1 451 Th treatment of fractures with rest and movements L

The treatment of fractures with rest and movements to BOEHLER Schw uz med Wichnschr 1028 I in 267. An improved cl mp for their tenti not bone pint in the open reduction I fractures E F 10EAN Colorado Med

open reduction 1 fractures E F DEV Common 1928 xxv 327

1 few brut surgical considerati ns of fractures S O
BLACE Internat J Med & Su g 1928 xli 476

An improved method in the use of Steinman pin (1 tracts a C R Murkay S og Clin \ Am 1925 at 109)

Lymph Glands and Lymphatic Vessels

Early diagnosis and early radical operation in tubercu lous lymph glands of the neck J M HANFORD N York State | M 1928 Xvvii 1150

SURGICAL TECHNIQUE

Operative Surgery and Technique Postoperative Treatment

Method of clamping operating sheets so that instru ments may be prevented from falling F H LAHEY] 1m M A4s 1928 xci 1109 Standards of technique for safe sternization Mel J

and Rec 1928 exxviii 357 MBGV 5 for sterilizati n of the skin A preliminary report K Roberts Surg Clin \ Am 1928 viu 1051 General and special operative surgery Vol I General section M AIRSCHNER and & SCHUBERT 1927 Berlin

Springer
Traumatic surgery L B CLINTON Internat J Med & Surg 1928 xl1 452

Plastic surgery J F SHEERAN Arch Otolaryngol 1018 VIII 448

Attempts at the operative treatment of diabetes C MANSFELD and E SCHMIDT Klin Webnischt 1928 vil

The treatment of injuries to the finger tips 1 KRECKE Muenchen med Wehnschr 1918 laxy 571 Free autogenous fascia transplants I perimental basis

and practical uses I Kognic 1928 Berlin Urban & Schwarzenberg Experimental and chriscal study of the free tran planta

tion of dead (alcohol or formalin preserved) tissues. A Hosout Deutsche Ztschr f Chir 1928 ccix 14 Newer vascular drugs and their use in emergencies R SCHOEN I rgebn d Chir u Orthop 1928 Ext 338

The use of rivanol in surgery particularly with reference to aseptic operations I frojan Gyogyaszat 1928

lavm, 314 The use of dextrose intraperitonially in infants and in oung children C G GRULES and H \ SANFORD \m) Dis Chill 1925 xxxvi 445

Digitalizati n before and after operation II KORHLER Zentralt I f Chir 1928 lv 1482 Dangers from intravenous administration of normosal

and salt solution. A BECK Deuts he med Wehnschr. Upon the danger of hypodermoclysis with adrenalin

solutions G Itleo Plicha Rome 1928 xxxv sez prat toso Van ose veins complications direct and associated

following the injection treatment a review of the hierature HO McPheeress and C. O Rice J Am M 455 1928

The intra pinal use of k belia F Huzuna Japan J Olst & Cynec 192 x 18 Surrical injuries from electric currents. I Laypois

Centrall I Chir 1918 1 1440 The influen e of perative procedures on the activity of the heart W Wacii ucrn and G Fishever Deutsche Ztschr f Chir wie ect 145

The gen ral han es, particularly those of the bland Howing surg al procedures and their significance in the devel pment and manag ment I postoperative complicato at. If a N FEMEN and II BINSWANGER Deutsche Zixhr f Chir 1928 ccis, 15

three cases C CORBEILLE Minnesota Med 1928 xi The basal metabolism in lymphoblastoms C I KRANTZ Am J Med Sc 1928 clarvi 577

Hod kin s disease in children a clinical study of thirty

The after-care of surgical cases F MELCHIOR 1928

Leipzie Barth Postanesthetic and postoperative psychosis

Dovie Anes and Anal 1918 vii 313
Postoperative psychosis W F GARDNER Kentucky

M I 1028 xxvi 537 Prophylaris of postoperative embolism and thrombosis

W LORZELT Zentralbi f Chir 1928 lv 1481 The treatment of postoperative retention E Saciis

Zentralbl f Gynaek 1928 lu 1531 The Felter yoke as a prophylactic agent for postopera tive pressure paralysis following the use of the Trendelen burg position L G BALDWIN Surg Cynec & Obst

1028 sivn 553 The ossification of operative scars L Di NATALE Arch ital di chir 1928 xxii 57

Antiseptic Surgery Treatment of Wounds and Infections

Rattlesnake bite J F Doughty California & West Med 1928 Exix 237 Diseases of bacterial origin G L ROHDENBURG and

C REICH Am J Surg 1928 v 321 Actinomycosis as a late sequel of war wounds O Boyk

SEN Zentralbl f Chir 1928 lv 1542 The management of inflammatory processes by alkalin ization J Lukovsky Zentralb! f Chir 1928 lv 1613 The therapeutic use of bacteri phage in suppurative conditions T B Rice and V K HARVEY J Lab &

Clin Med 1013 xiv t 11611 Treatment of cold abscesses by sodized chloroform in jections I Marian Zentralbl f Chir 1928 lv 1420

The treatment of gangrene W S HANDLEY But M 1928 H 593 [161] Interruption of the efferent blood and lymph channels n acute septic infections P CLAIRMONT Schweiz med

Wehns.hr 1928 Ivm, 545 Sera and vaccines in the prevention and treatment of infectious diseases—a criti al review B Wittre New

Ingland J Med 1928 excix 505 The treatment of sepsis with parenteral injections of sulphur and oil of turpentine L. Bunn. Med Klin.

1025 XXV 25 The serum treatment of cutapeous anthrax

Honeson Lancet 1918 ccay 504 Gas gangrene in civil surgery The value of serum treatment A V Dickinson and C A TRAVER

The results of the treatment of tetanus with intra pinal injections of antitoxin 1 RAUDKEPP Polia neuropathol

191 11 115 The accine treatment of furunculosis M Michael. Therap d Gegenw 1918 Isix 161

Autoham lysotherapy M DESCARPENTRIES Brux elles med 1928 van 1300 Con-specine protein therapy in ensupelas ILC Sexov

Lancet 1929 ccrs 446 The treatment of wounds G Macres Med. Alin 1928 ERRY SOI

Char 1928 ccur 241

184

A remarkable case of late aneursm following guishot minry & Porestra Zentralbl f Chur 1928 ly 1410

Rupture of an ancurism of the abdominal sorta into the duodenum E De Massary and P Flandrey Bull et mem Soc med d hop de Par 1928 xliv 1203 Death from hemorrhage from a splenic artery an unism

L Mayer Orgosi hetel 1928 frau 538 A case of false bilateral symmetrical ancurism of the

popliteal artery S Soutens Ann ital di chir 1928 vii The treatment of vances with sclerosing injections D

Milata Riforma med 1928 also 1103 Glucose injection trestment of varicose veins O Hogs Unesk. f Laeger 1928 ac 482

Difficulties in the treatment of van ose veins and ulcers k Linder Fortschr d Therap 1928 tv 44 117

Discussion on the treatment of varicose ulcers by in MACLEON SICARD FORESTIER travenous injections GAUGIER and others Proc. Roy Soc Med Lond 1928 XII 1821

Intravenous injections of gentian violet in the treatment of phlebitis M STANLEY BROWN Surg Clin N Am 1028 VIII 1031

Blood Transfusion

Quantitative determinations of the visible and ultra violet absorption spectrum of the blood and its components R Sourmany and W Lollatte Biochem Zischr

1927 clauste 216 Serological differentiation of steric isomers & Land-sterices and J van der Scheer J Exper Med 1978

Colloid lability and blood serum (Report I) Early diagnosis of pregnancy by means of colloid lability of serum and its relation to sedimentation of crythrocytes M Howns and S LANACI Jap J Obst & Gynec. 1928

X1, 154 Biometry of calcium inorganic phosphorus cholesterol and lipoid phosphorus in the blood of rabbits I Normal animals from recently acquired stock A R Harnes

J Exper Med 1928 xlvus 549
The ffect of sodium chloride on the chemical hanges in the blood of the dog after obstruction of the cardiac end of the stomach R L Hangs and T G ORR J Exper Med 1028 xl 111 627

The blood chlorides in proteose inforcation R L Hapen and T G One J Exper Med 1928 21/11 639
The distribution of the globulin and albumin fractions in

the blood and in the urne in nephrosis a preliminary report F W Soutcher W W Swassov and M R Ziecler Am J Dis Child 1928 xxxiy 756
The a tion of saliva and gastice jut e on the clotting of

blood J B Howers But I Surg to25 gvt 203 .ome effe ts of \ rad atton on bloud W \ VAYNEDED and A PINEY But. J Radiol 1928 1 257

Concerning the existence of a phytotoxic property in the human blood serum L Rapice. Ann ital di chir 928 The effect of operation on normal and immune titres of

barillus a glutination, especially in case of mal gn tumors Sn Uchroaki Jap J Obst & Gynec 1925 m 203 Fixation of complemen by bacillus typhosus and normal guines pig 8 serum a contribution to the study of natural antibodies L M D vices I Fath & Bacteriol 19 8

XXXI 750 The relationship between the bartericidal power of normal gumez-pig serum and complement activity

GORDOV and A WORMALL J Path & Bactered to 5

The action of immune serum on vaccuits and line III on Pilo C H ANDREWS J Path & Bottern ! 19 5 XXXI 671 The buffer action of the blood in purulent disease with generalized infections P MULLIER Deutsche Ztale I

The relation of agglutination by special serum to a glutination by acid J A AREWRICHT J Path & Ba teriol 1928 xxxx 664

On the inheritance of a glutinogens of human blood demonstrable by inmune acclutinus A Laussman and P Levrez J Deper Med 1933 about 757
I object the must be the property of t

ing the perstoneum M R Howard J Path & Bacterol 1018 YEAR 645

Splenomedullary leukæmia in an V ray worker W H EVANS and R. E. ROBERTS Lancet, 1028 CCRV, 748 Splenectomy in ess utial thrombocytopanic purpora

C C PINKERTON Ohio State M 1 1928 XXIV 783 The origin and fate of polynucleate cells] LEVY Anat Record 1028 xl 111

Questions in bemophilis M Madiener. Zentrall. Chir 1928 ly 1667 Atypical or sporadic hamophilis J W Berre Ket

tucky M I 1928 Exts St4 Hemorrha ic disease W D Lyriz and W W Avan

J Am M Acs 1028 xc1, 125t Uncontrollable hamorrhage B Heauth Fortschi & Thetap 1928 iv 285

Purpura hamorthagica and lesions of the nervous 599 tem F Ricci Poli lin Rome 1928 xxxv sez pat that The transfer of rat anamia to normal animas W W FORD and C P ELIOT J Exper Med. 1918 xlvm, 4).

Falm color test a sample practical clinical method for
the diagno is of aniemia and plethora. W. W. Doxe. Arch.

Int Med 1928 xlu 511 Evidence that there is a harnatopoietic hormone in the

blood of anzenic hildren K R Pacha Press phi Par 1928 xxxvi, 950
The biological effect of blood transfusions in anim.

patrents E GREPPI Klip Wehnschr 1918 vil, 400 The effects of blood transfusion upon the hamolo a and the nitrogen content in cases of anomia E Garre and L Rossi I liche Rome 1918 xxxv tez med. 42 Splenectomy for pernicious anamia L Borgas Deutsche med Webuschr 1928 hv 738

The blood groups of full blood Australian aborgant G
PHILLIPS Med J Australia 1938 u, 206
Blood group studies and transfusion. H Sums Zot
tralbif i more Med.

tralbl f innere Med 1017 zlvin 1154 1185 A non-compatible blood transfusion donor Banben and R P Mindletov Arch Pediat 1919 als

Transfusion of blood] G Letter Rhod Island

M J 19 S x1 161
The indications f r blood transfusion in agranulocytesis. O HOCHE Wien klin Wchnschr 1928 xl1, 344

The transfus on of blood in surgery P Decker Rev med de la Suisse Rom | 938 zivin 671 | Autotransfusion | H B Devine and | J Rosseill

Brit M J 1928 11 568

Blood transfus on in black water fever Lancet 1918, cery 645

Death following blood transfusion. H Birsavarerers.

Ween klin Wehnsch 1928 xlu 923 The intrapentoneal use of citrated blood in the trul ment of bronchopneumona C II ARRENDELL) OKS

homa State M Ass 1928 xx1 255

Radiological treatment of cutaneous ba al cell carcinoma with resulting tissue changes J B Hiscias Lancet 1029 CCXY 8.6

International re ommendati no for \ ray and radium protection But J Radial 1928 1 358 Later observations and late results of the urgical treat ment of roentgen injuries J Szenásy Marry Roentzen

Local 1028 H 177 Radium

Freryday u es of radium A J LAREN Illinois VI I tare to see The treatment of mali nant disease of the skin with rad um I ENWICK New Zealand M J 1928 revin

Miscellaneous

Physical and biologi al probl ms in heliotherapy | F | \ PostE and k & Sawyer Am J Roentgenol 1928 xv 338

Heliotherapy limitation in pediatrics L W Saver Illinois VI J 1928, liv 296

Twenty five years of heliotherapy for surgical conditions O BERNHARD Strahlentherapie 1928 xxvm 211

Council on physical therapy or anization scope and activities A U Dissasson's J Am M Ass 1918 vel 10 5 Why physical therapy fails E L I IBBERT J Indiana State M 188 1028 XVI 416 Irrad ation of surm al tuberculosis E kiscii Strahlen

MISCELLANEOUS

theranie 1028 xXVIII 237

Clinical Entities-General I hysiological Conditions

Male and female devel pment at puberty C BUEILER Verhan II d I internet Kon I Sexualforsch 1928 iii 35 Traumatic shock in animals N Hiro E Japan J et

med sc ix Sur, orthop a od nt 1 1928 1 235 The surgical compli ations of diabetes b L Courv

In I Med Sc 1028 cleres 401 Raynaula di ca e R S I swson I roc Roy Soc Med Lond 1928 xtl 1850

Virenal tran plantation in Vidison's disease V REIN HART Mu nchen med Webnscht 1028 levy 10 The medico legal a pects of the turnor policen

MOELLER Beitr z gen hil Med 1928 vn 40 The progness of tumors F L Bishop J Med 184

Georgia 1928 xvu 415 Subcutaneous gl mai tumors painful ubcutaneous nodale D M Cario Lalinburgh M J 1928 xxxv 565 Ul rating an l sclerosing granuloma so-call d granuloma incumale with case reports C B WILLMOTT South

J 1928 xxi 872 Malignant disease—a urvey W S BANBRIDGE J

Mi hi an State M Soc 1928 xxvii 6 o The nature of can er susceptibility in human families

S WARTHIN J Cancer Research 1928 to 249
The relats n of heredity to ancer M Save J Cancer Research 1929 xii 41 The mutation theory of the development of cancer

Tran it on from normal t tumor cells f llowing changes in the gene K II BALER 19 8 B rlm Springer Human cancer a m rph geneti stuly L. Bosrgoget

1924 Leipzig Thieme The products n of tumors with man extracts of rats

affected with mal mant tumors I I Tixozzi Ann ital dichir 1328 14 814

The scurrence f histol a new tumors foll wing in oculate a with malignant tumors (I Ewry Zischr f hretsf is h 1928 xxxn 253

Stud es upon a new tran plantal le rat tumor & Si ettra. J Cancer Keserich 10 s zu 141 [163 11621

Some furth respect n es with the production of coll idal lea for salts of lea | REPORTED BLERWALD and TLEAFE I Can er Research 9 4 xii 160 Medi al problems in the in nosis and treatment of can er L I Canna im J Med to 1928 classi 560

I x bemi al viewpoints on the can er problem (vox Wexpr I in ka la k sa l k han'll 1928 les 334.
B scheme al stul f the un e of cancennus rate king as Jour of b whem 19 8 vis 459

On the filterable agent of malignant tumors II I

HOGERS J Can et Research 19 8 xm 222
Blood cholesterol studies in cancer H Investigations as to possible distributions W 1 Marrick and k

BLOWNED J Cancer Research 1928 at 236
Blood holesterolstudies in cancer III Relate n to non malignant conditions W. J. MATTICK and K. BUCH

WALD I Am M Ass 1028 XX1 1087 Tumors of the skin an I mammary gland caused by pyr "enous products of cholesterol I I KENNEWAY and B SAMPS IN I lath & Bacteriol 1929 TTU 600

Classication and nomenclature of tumors especially the sarcomata H Smox Beitr z klin Chir 1018 exbi

Trauma and sarcoma J Sattler Orvosa hetal 1928 Ivan 68 D utsche Ztschr f Chir 1928 ccix 116 Malignant bla toma J & McCARTNEY I Cancer Re

search to28 xii toc The gas treatment of malignant tumors and cachectic conditions W Caspage Klin Wchnschr 1929 vu 645 Cancer pradiation with cathode rays M F (UNFR an i

I DANIELS I Cancer Research 1028 xu 166 Tis ue puncture for the diagnosis of inoperable tumors II HELLENDALL Zentralbl f (yngel 1918 lu 561 What I the value of the serum test for carcinoms in

clini ally cured patients L. Volenan Ztschr I Ge burtsh u Cynack 1028 xcn 516 The increased mortality rate of cancer H F Process

J Can er Research 1928 vu 9 11621

General Bacterial Protozoan and Parasitic Infections

Rare highly infectious skin disea es (exclusive of the a ute exanthemata) glan lers anthrax diphtheria and eryspelas & Gricer Wien klin Wehnschr 1018 ali

Ba illus abortus infection W G PARKER J Am. M Ass 1928 XCI 1250 Fti 1 m of oroya fever \111 Chemotherapy in experi

mental bartonella ba illiformis infection H voct cur I exper Med to 8 xl m 619 The varying vitality of agar cultures of bacteria of the

species bru el a meliten is & Favilla ani & Boch FLLI Sperimentale 19 5 Ivenii 371 A case of fatal sepsis due to bacillus morgan I T

Ten tre Visk Viag I Laegevillen k. 1928 Ixxux 583 The in rife titration of ba illus wel his antitionin by its antihem lyte power J H Mason and L T GLENNY I Path & Bacteriol 1928 xxx1 610

The healing and treatment of wounds P Clarentover

Deutsche Ztschr f Chir 1928 ccvu 305 Physical chemistry of inflammation and wound healing C HAEBLER Frgebn d Chir u Orth p 19 8 xx1 421 The bactericidal activity of hetylresorinol (solution S T 3?) on wound surfaces W A FERRER and V LEONARD

Surg Gynec & Obst 1928 xlvis 483 Sulphosalicylic acid for ulcerous processes decubitus and ulcus crutus DREWITZ Deutsche med Webnschr

Angesthesia

The preparation of the patient C J WELLS Anes

and Anal 1928 vir. 257
A jaw holder for abusthesia M LAESECSE Zentralbi f Chir 1028 ly 1478

Warming an esthetic gases F Horischen Zentralbl f Chir 1928 ly 1161

1028 liv 021

186

A simple shæsthetic screen E Kanvi Zentraibl f Chir 1928 lv 1033

The effe t of anasthet; s on the body as a whole WEBSTER Bees and Anal 1918 vil 200

The effects of any thetics on hepatic function S M ROSENTHAL and W. BOURNE Anes and Anal 1028 vii 276

Vital capacity in relationship to surgical risk H J MORRSCH Anes and Anal 1928 vit 262

Deaths under anasthesia J R Mackenzie and T Shennan Lancet 1928, ccxv 699

Experiences with different types of anxisthesia L. Mainteschi Deutsche Zische f Chur 1928 ccir 289 Experiences with pernocton anasthesia

Zentralbl f Chir 1928 lv 1186 Experiences with intravenous auxisthesia with pernocton C. Herseit Muenchen med Wehnschr 1028 Izzv 821

Pernocton anæsthesia L B SEIFERTH Tol a otolstyn gol Pt I Ztschr f Laryngol Rhinol 1928 xvi, 430 Personal observations under narcylen anaesthesia KUEPPERS and H FRANKEN Narkose u Anæsthesie 1928 1 202

Intravenous rectal or inhalation and thesia in gyne cology? If FUESTATE Narkose u Amesthesie 1928

Minimizing the fire and explos on hazard in the admin istration of anasthetics [G Pog times and Anal 1928 VII 295 Twil ght sleep in surgery Dax and Weigann Muen

chen med Wchnschr 1928 luty 599 An anæsthet c mixture for short operations H G

HOLDER Am J Sure 1928 v 394 The application of gaseous an esthetics in some unusu 1 types of operations and in patients with unusual compli-cations E I McKesson Ages and Anal 2028 viz 268

Teaching anaesthesia in the specialties ear nose and throat J H Esays Anes and Anal 1928 vu, 204 Incision of carbuncles of the neck DREWITZ Zentralbl. f Chir 1928 ly 1436

Anasthesia in cases of operation on the upper abdomes H T THOMSON Ines and Anal 1918 vil 180

Aitrous oxide anasthesia E STRASSHAVY Zentralbi f Chir 1928 lv 1157

Demonstration of a nitrous oxide anasthesia E Stress-MAYN Zischr f Geburtsh u Gynaek 1928 zum 532
The stability of anasthetic ether F W Vizarry and

M N TAPLEY Anes and Anal 1928 vil 318 Intracardiac injection of adrenalin in threatening disth from ethyl chloride anasthesia G Jonysov

Mao f Laegevidensk 1928 lxxxx 478 Observations upon the blood pressure pulse and respire ation in various forms of regional anysthesia P R. Dev

MAY Anes and Anal 1928 vii, 272 Brachial ple us block in the infraclavicular is a modification of Ba! gs method M H Kin Zentralb!

f Chur 1928 lv 1423 Rectal anasthesia with avertin, C M BERREVO

Med Lim 1928 xxiv 736 Spinal an esthesia H G Holder California & West Med 1928 XXIX 245

Spinal anasthesia J L AVENT New Orleans M & J 1928 IXXXI 284 Lumbar and thesia with tutocain E Moses Zentralol

f Chir 1918 ly 1154 Paras ertebral anaesthesia for operations on in usual and femoral hermas A LAENEN Schmerz 1928 1, 280

Meningomyelitis in a heredosyphilitic patient following spinal anæsthesia R Dónovan J J Beretervior and RECEINTENSET Rec Soc de med interna y Soc de tisiol 19 8 av 67

The technique of avertin anaesthesia W Warre Zen tralbl f Char 1928 lv 1800 A death under avertin a æsthesia F SESTRA S Zen tralbl [Chir 1028 lv 180,

A death under avertin angethesia II Kouten Zen tralbl f Chir 1928 ly 1806 Novocain dermatitis as occupational disease among den

tists D Silber Deutsche Monateschr f Zahnh 1916 ds 338 Further studies in the clinical results of alkoform and gesta I G E HINKLE Anes and Anal 1928 vn, 309

Surgical Instruments and Apparatus

An illuminating apparatus for deep operative fields C LWALD Zentralbl f Chir 918 lv 1804
Rustle s surgical instruments L WAGNER Zentralbl f Chir 1928 lv 1203

The geometry of cross radiation J VAN ROOFFY But.

PHYSICOCHEMICAL METHODS IN SURGERY

J Radiol 1928 1 378

Roentsenology

Genius in roentgenology Brit J Radiol 1928 1

Atlas of typical normal roen's a pictures, chosen and explained from the standpoint of practical surgery with consideration of variations sources of error and techni fue of exportre R. Grassley 1928 Munich Lehmann Some impressions of the international concress a Stock Some impressions of the international convress a Stock holm. W. E. SCHALL Brit. J. Radial 1928: 1 366.

Handbook of irradiation therapy. Biology. pathology and treatment. P. Lafarus. 1928. Munich. Bergmann.

International Xry unit of intensity But J Radiol 1928 1, 163 Reradiation R H CROCKETT Texas State J M 1928 XXIV 439 Radiotherapy in actinomycosis A U Despirolis

Radiol gy 928 21 321
The Institute of Medical Radiolo y of the Royal Uni

ersities and the National Victor Eman el III Inst tute for the study of treatment of cancer in Milano F Pertisia. Radiol med. 1928 av 793

International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

EDITORS

FRANKLIN H MARTIN Chicago
SIR BERKELEY MOYNIHAN & CMG CB Leeds
PAUL LECENE Paris

SUMNER L KOCH Abstract Editor MICHAEL L MASON Assistant Editor

DEPARTMENT EDITORS

ELGEAE H POOL General Surge y

FRANK W LYNCH Gynecology

JOHNO POLAN Obstern s

CHARLIS H FRAZIER Neurolog cal Surgery

F N G STARR Addominal Surgery

CARL A HEDBLOM Chest Surgery

R W

LOUIS F SCHMIDT Genit > Unnary Surgery PHILIP LEWIN Orthopedic Surgery ADOLPH HARTUNG Roentgenology HAROLD I LILLIE Surgery of the Ear L W. DEAN Surgery of the Nose and Throat ROBERT H 13 Y Pla to and Oral Surgery

CONTENTS

I	Index of Abstracts of Current Literature	m ix
11	Authors	17.7
ΙΙΙ	Editor's Comment	XII
ıν	Landmarks in Surgical Progress	189 191
ν	Abstracts of Current Literature	192-278
VI	Bibliography of Current Literature	279 304

Ed torial Commun cat one Should Be Sent to Franklin II Martin Ed for 54 Ea t Ene St Chicago
Ed fort I and Busine v Off es: 54 East Erie St Chi ago III noi U S A
Publi here for Great Bratan Baile e Tinalist E. Cox 8 Henrietts St. Coxent Garden London W. C.

New german surgery Vol VL Echinococcus disease C Hosemann E Schwarz J C Lehmann and A Posselt 1928 Stuttgart Enke The dangers of anaphylaxis in repeated operations for

echnococcus M I Loren Epstein Arch f khn Chir 1928 cl 330

Fusospinilosis F P WARREN J Kansas M Soc 1928

Experimental gonorrhoes in animals A Sternberg S STSCHEDROWITZEY and E RABINOWITSCH Zentralbl f Gynsek., 1928 Ju 1833

Observations of so-called influenza infections in children C. C. McLean Arch Pediat 1928 xlv 571 Leprosy I S & Reeves. U S Naval M Bull 19 8

XXV1 920 Leprosy a review of recent advances in serology and im munology F Wise South M J 1928 xx 837

Studies on a paratyphoid infection in guinea pigs V. The incidence of carriers during the endemic stage J. B.

The pathogeni values of pneumococcal types the lessons produced in relation to virulence J F G48kgil J Path & Bacteriol 1028 xxu 611

An epidemiological study of poliomyelitis in Ohio C P Robbins Ohio State M J 1928 xxiv 784 Virus neutralization experiments with Rosenow's and

Pettit s antipoliomyclitic sera F W Stewarr and P HASELBAUER J Laper Med 1928 gives 449 [163] The role of the reuculo-endothelial system in the devel opment and treatment of streptococcic infections Louros

Ztschr f Geburtsh u Gynzek 1928 rcm 480 The conversion of hamolytic streptococca to non hamolytic forms E W Tono J Exper Med 1928 XIVIII AGR

Tetanus with gas gangrene J C Mois Brit M ! 1928 11 748 The mana ment of tuberculosis in children in the

Hamburg Sea Hospital Nordheim Foundation Sahlen burg near Cuxhaven II DENKS Strablentherapie 1928 XXVIII 299

Tularemia, O O Miller Kentucky M I 1028 xxv1 Tularzemia C H Hagris Kentucky M J 19 S xxvi

Tularamia (Francis 3 disease) W M Simpson U S

Aaval M Bull 1928 xxv1 825 Tularamia C W O BUNKER and C E Sastri U S Naval M Bull 1928 Ervi 901

Rocky Mountain spotted fever tularamia and rodent plague J C PERRY California & West Vied 1928 XXIX 217

Surgueal complications of ascandiasis H W vss Schweiz med Wchnschr, 1928 lvm 502 Diagnostic skin test for helminthiasis FUELLEBORN

Klin Wehnschr 1928 vn. 820 Dumb rabies not black tongue E G Unitables.

Varginia M Month 1928 by 491 Actinomycosis of the lung and cheet wall Glases Zentralbl f Chir 1928 ly 1688 Actinomycosis of the internal organs-cale report. E.

Geynteller Schweiz med Wehnschr 19 8 Ivin 637 Blastom) Losis A Castellant New Orleans M & S I 1028 IXXXI 260

Ductless Glands

Handbook of internal secretions A comprehensive presentation of the anatomy physi logy and pathology of the endocrine glands Vol 2 Ed 3 The thymus Vol 3 Ed 2
The hypophysis M Hirsch, 1927 Leipzig Kabitzsch

Endocrines in infantilism and dwarfism II. Gold-STEIN Med J and Rec. 1928 exxvut 345 Disturbances of the endocrine glands Ed a W Farre

1928 Berlin, Springer The effect of hormones on the cell chemistry I Worth

GENUTH Deutsche med Wchaschr 1028 hv 816

Surgical Pathology and Diagnosis

The value of early diagnosis in survey A KRECKE Muenchen med Wchnschr 1928 Ixxy 761 Studies upon the effect of haht on blood and tissue cells.

The action of it, ht on white blood cells in mire Ii R. EARLE J Exper Med 1928, 2lvin, 457

Studies on wound healing with special reference to epithelial hyperplasia and its rôle in the process. L. Il. JORSTAD J Cancer Research 1923 In 230
The behavior of the reticular tissue in amyloid degeners

tion L GRUTTA. Sperimentale 1928 from 381 Differential diagnosis of surgical conditions of the head neck, and breast (Practical differential diagnoss i

physicians and students Hongmann Vol. iv Pt 1) 1018 Leipzig Steinkopfi

The kidneys and the excretion of amino and Kercu. Zentralbl I Chir 1928 lv 1563 Differential diagnosis of surgical conditions of the ba tocks and extremities (Practical differential diamo is for

physicians and students Hon mann Vol. W Pt. 4) A. BRUENING 1018 Leipzig Stemkopff Chronic sep is and septicopymus. L. Arevott. Riforms med 1028 aliv 1081

The autopsy its importance and its availability M Warwick, Am. 7 Med Sc 1028 cirry 536

Experimental Surgery

The process of healing of burns of the muco-a. M SLGANO Mitt med Akad Kioto 1928 11 963 Atumitic fluid concentrate in the p evention of adhe sions H L JOHNSON New En land J Med 1918, creix

Experimental study on the effect of surgi al pneumothorax on the respiratory quotient. L. YAMANO MIL.

med Alad Lioto 1925 it 1105
Quantitative stud es in the conductivity of perves during angesthesia A. Lanczos Arch f exper Path a Phar makol 1928 Cyxx 297 Nitrogen metabolism of normal and sarcomatous fibro-

blasts in pure cultures L E Baker and & CARREL J Exper Med 1028 glvm 533

Hospitals Medical Education and History

The hospitals of New Zealand and the promotion of the practice of surgery J 5 Elliott J College Surg Australasıs 1928 1, 34

Remarks on postgraduate in truction in New Zealand Sir L L Barnerr J College Surg Australesia 1928 1,33
An outline of a suggested policy for the College of Sur geons of Australasia for post graduate trainin

LEY J College Surg Australasia 1928, 1, 50 William Harvey the man and his times If Sorron

Med J Australia 1918 ii, 392
William Harvey M D FR.C P some aspects of his
g outs Gart Generius Med J Australia, 1918 ii 395
Harvey's England 1578 1657 Glimpses of the times both lay and medical M B Cownishaw Med. J Aus

tralu 1928 u 398

CONTENTS-MARCH, 1929

LANDMARKS IN SURGICAL PROGRESS

RESECTION OF THE SUPERIOR MAXILLA—HORATIO GATES TAMESON ITEMS S Cutter M D Se D Chicago

ABSTRACTS OF CUI	RRENT LITERATURE
SURGERY OF THE HEAD AND NECK Head	FENTON R 1 and Larsell O The Mechanism of Pain Transmission in Certain Types of Otalgia
Tond H C Aseptic Cavernous Sinus Thrombo is 192 IVY H and Curits I Some Orthopedic Problems of the Lower Jaw with Special Reference to Unilateral Shortening 192	Nose and Sinuses THESEN C F Fthmoditis in Infants and in Young Children with Accompanying Lye and Orbital Compil ations
SIMMONS C C Adamantinomata 192	Sen are P. C. The Diagnosis and Treatment of

Chronic Maullary Sinus Infection Extension of the Technique to Include Control of Hæmor rhage by I igation of the Terminal Branches of the Internal Manilary Artery and Resection of BARRAN O and BARRAN II Fracture of the Optic 193 the Mildle Meatal Wall Giving Operative Ap

180

198

108 100

SURGERY OF THE NERVOUS SYSTEM

NE VI L and WYATT I B II A Case of Neuro	193	proach to the I thmosd and Sphenoid Sinu es
fit romatosis of the Right Orbit	193	Mouth
CREETY J J Hastic Dacry orhinostomy	193	BLAIR V P BROWN J B and WOMACK N A
Alt. D T Jg Argyrosis of the Tarsal Conjunctiva	103	Cancer In and About the Mouth

Canal

time D To

tt

s henoud Approach to the Optic I oramen	193	FAIRCHILD T R Cancer of the Lower Lip Subges tions as to Operative Fechnique in Hastic Repair
Af .		Pharvox

sions of General Interest to the Profession Refer		HLEPLE W C and	1 O Covor D	Agranulocy tic
able to D1 cases of the Ear	194	MOLLISON W M	Dy phagia Di	e to I haryngeal
WIS E D D Injuries of the Ear Arisin, from		Paralysis	-3	

ARTE W S The Influenzal Lar	105	Neck
tions of Its Causes with Special Reference to		WINKELBAUER A Experiments with Regard to the Physiology of the Thyroid

OKER I The \ature of I rogressive Deafne s	10	Street Seven Cases
LIFECTION C DISCASE	103	HANZLIK I I TALBOT L P and CIBAN E I
The Pathology of Otosclerosis		Continued Administration of Todade and Other

in Otosclero is	10	Growth of the Body
tion of Otitis Media and Labranthitis in Rab	.,	ADAMSON C I and CAMERON A T The Pre Operative Treatment of Craves Disease by a

Dits	,,	195	Combination of Indized Latty Acid an I Vit	amir
EWY A	The Influence of Fluorine on the Bony		\ and D	
	inth of the White Mouse (Mus Musculus			

Traves A L and Facers J S Labymothitis a
Complication of Middle-Ear Suppuration A
Classal and Lathology all Study Bram and Its Coverings Cramal Nerves 95 Postuces C Vasomotor Affections of the In BLAND-SUTTON SIR J. Hydrocephalus. A Study in Thylogeny and Pathology. ternal Ear 196

ш



Parenson II J and HERNAMAN JOHNSON F The Fallacy of X Rays in Abdominal Diagnosis	216	ence to the Advances in Treatment Duting the	
Hossiev J S Some Stomachs I Have Met	217	Last Ten Years and the Po sible Progress for	
KALBFLEISCH W & Diverticula of the Stomach	217	the Ensuing Ten Years	230
Beausret B M Diverticulum of the Stomach	17	Moore \ B Diseases Affecting the Distal Half of the Colon	441
Mand I Inalequity of the Weber Ramstelt Operation in Lyloro pasm	21	LRISKE H Operation for Carcinoma of the Rec	231
CALACHER W I The Pil et of Injections of Hy		CULLERIN A Acute Appendicutes with Rupture of	231
dro blone lei l on the Gastrie and Duodenal	21,	a Bilateral Tubal I regnancy	24
Most, II and Prive P 1 The Depres we In fluence of the Sympathetic Nerves on Gastri		Jos Acute Postpartum Dilatation of the Stomach	2)
ted t,	1	Liver Gall Bladder Pancreas and Spleen	
HAOM K. The So-Called Leptic Ulcer of the		WILLIE \ I The S guificance of Hepatitis in Re	
Stomach and Duodenum in the D. Which		lation to Cholecystitis An Lyperimental Study	31
Sometimes Follows Chol do hoplasty	10	DIAMOND J S The Value of Routine I stimations	
Cincox C. L. Acute Perforations of the Stomach and Duodenum	10	of Blood I thrubin With a Report of 56 Cases	
Leuris II W The Surgical Treatment of Gastric	••	Including a Group of Unrecognized Toxic Hep	233
an f Duodenal Ll er	۰	IULTON W S and SHELPE W M Actinomycosis	•3.
WRICHT G The Surgical Treatment of Castri		of the Liver	33
Ul er with Special Reference to the Massix		BOYDEN F A An Analysis of the Reaction of the	•
Lices	110	Human Gall Bladder to Food	23
BLACK 1 The Large Stoma Gastroje junostomy	22	HFLD I W Rocatgen Diagnosis of Gall Bladder	
TRUESDALE P E I plorectomy	2.2	In ease	23.
TENNEY C F BANCROFT I W and LOLE L G		Baccio G Cholecystectomy for Calculous After	
Castric Ulcer Pylore tomy I 6lya Anastomosis	223	I as age of the stone	23.
And Results of Partial Gastrectomy of Chroni		INARZ I L Cancer of the Gall Bladder	23.
Gastric Liver	3	I RDU LN J 1 Surgery of the Gall Bladder	23.
MILER T MCW 1 Ledunculated Extragastra	-	I sm v I H Surgery of the Bile Ducts	233
Lensmyoma of the Stomach with 11 emorrhagic		Jun I 5 Sequelæ and Accidents of Biliary Sur	
Defeneration	1	ger)	23
Di stor D M Lyamination of the Castric Con		JNES D I The Relation between Gall Bladder Disea e and I ancreatitis	
tents as an Ail to the Diagnosis of Careinoma of the Stomach		WHITE I'W Some Medical A pects of the Di-eases	23.
MACCIETY W C Larly Cancer of the Stomach	214	of the Gali Blad ler and Bile I assages	23
Posts H and Inctes k Ganglioneuromato is of	5	I top W 1 Congenital Atresia and Stenosis of the	
the Unmentary Tract	2	II le Ducts	236
WARRY & Cancer of the Intesting	225	T vara UN Studies on Biliary Fistulæ	231
TE TATER F C In Interv Cast of Large Size in		I VLOR J Cysti Dilatation of the Common Bile	
a Boy	2 6	Du t Re ord of an Example	23
Office R 1 The Kelative Mechani al Strength		FINEY J M T and finey J M T JR Resection of the lan reas	
of Latero tomies I erformed with an I without Clamps In I sperimental Study			23
litrer A t	0	Hitzrot J M An Unclas if ed Type of Spleno megalv in Children	23
Mersy A F and Stantar M J Jejun I and Castrojejunal Ulcers I I tiology and I athology		MINISTER \ O RELYES R J an Comp C C \	-3
" " " " " " " " " " " " " " " " " " "		Type at Hamolytic Anamia with Splenomenaly	
R's ersos W 1 Jejunocolic F1 tuly	2	in Chil Iren	23
Bu Ex J 1 Ul erative Colitis	22	Devier J B and Reiness S I Splenc En	
Mckeyrick J S KERR J W W and I 156 1	••	larg ment with Cirrhous of the Liver	23
	25	BLERGAN 5 The Phenoltetrachlorphthalein Test of Li er Function in the Late Toyamias of I reg	
BUCKY J.A. Chroni I Lenting Colors becomed		nanc)	25
with Malignant Dicease	' 2 g	I van W H The Blood Changes Meer Splenee	- 3
MICHARLANT I & Submission Linears of the	, .	tomy in Splenic Anarmia Purpura Harmorrhagica	
Colon Report of a Ca e	229	and Acholuric Jaundi e with Special Reference	
		to the I latelets and Coagulation	2 (

Miscellaneous

229

Koster II and Weivreon M. The Blood Supply

Fase C. L. and BREEFER F. Appendiates in Cillien. An Analysis of Cases from M. Mary a free Hospital for Children and the First Surgical flow.

(Cor II) Dramon of the Yew York II pital 23

to the Appendix

My DY I O and VAN NESS R G Some Res Its of a Study of Roentgenograms of the Aldominal Likera

Called Idiopathic Hydrocephalus		Trachea Lungs and Pleura	
Micros P The Spinal Dagger Thrust the Ini	200	HILL L The Ciliary Movement of the Truches	
tial Symptom of Certain Subarachnoid Hamor		Studied as I atro	300
rhages In Essay on Spinal Meningeal Hæmor rhages		Burn H L Acute Laryngotracheobronch us	310
SURGENT SIR P On the Removal of Cerebral Tu	201	WRIGHT A J M Silent Trucheotomy Its Sig- nificance	216
mors	202	JACKSON C Bronchoscopy Past Pre ent and	
LASCHI G The Inclination of the Quadrilateral Plate in the Normal and Lathological Selfa Turcica	202	Future Fun arms A T The Surgeon a Point of Lew of the Meter Effects of Surgical Procedures in Pul	2 0
BALADO M and IRANE F Anatomicosurgical Con iderations Based on Six Cases of Abscess of	!	monary Tuberculosis CHANDLER F G The I bywician s Point of View of	211
the Cerebrum Sergove F G Rhinogenic I rontal Lobe Abscess	202	the After Ffle ts of Surg: al Procedures in Pul monary Tuberculosis	211
Report of Two Cases	202	JOANNIES W. The Etiology of Pulmonary Abscess MANGES W. F. Lung Abs ess Following Tonsilee	21
TRAZIER C H Operation for the Radical Cute of Trigeminal Neuralgia	203	tomy from the Standpoint of th Rocat, enology t	211
Spinal Cord and Its Coverings		RIENHOFF W. F. JR. and DAVISON W. C. I'm pycma in Inlants under Two Years of Age	11
JARO-CIT M Late Injuries of the Spinsl Cord- Compres 1 n Myelitis—with Severe Scolioses	203	Heart and Pencardium	
PETIT DUTAILLIS D A Contribution on the Surgery		I REY E and LARDI F Heart Disease and Preg	
of Spinal Cord Tumors Technique and Results in Twenty Personal Cases	203	nancy and Ab Jominal Casaresn Section under	٠.
RIEDER Anterior Root Sensibility	03	Lo al Investhesia in Ca es of Heart Disease	25
•		Esophagus and Mediastinum	
Peripheral Nerves		tget 1 L Syphilis of the (Esopharus	11
Tokers A Note Concerning the Pffect on Their Function of Stretching Nerve Trunks	02	Ulcerations of the (Esophagus Experime ta)	
SCHNEK F A Complete Subcutaneous Tear of the		Study	31
Ceryscal Pletus	203	Miscellaneous	
Sympathetic Nerves		ROBERTS F From in the Interpretation of Radio-	
CRILE G W. Clinical Stu bes of Adrenalectomy and		grams of the Chest	
Sympathectomy	96		
PALMA R An Anatomicolu tological Study of the Lifects of Removal of the Lenneural Sympa thetic	206	Surgery of the abdomen	
MOLE II and FLINT E R The Depressive In		Abdominal Wall and Peritoneum	
flu nee of the Sympathetic Nerves on Gastric Acidity	217	DAVID & C and SPARLS J L. The Pentoneum as Related to Pentonius	11.
		ROMANO N and REY S Duodenal Drains e and Duodenal Feeding in Certain Cases of Union	
Miscellaneous		trollable Vomiting in Peritonitis	25.
VAN BOGAERT L and VERBRUGGE J The Patho- genesis and the Surgical Treatment of Gastric Crisis of Tabes Neuroramisectomy	206	STEINBERG B and GOLDBLATT H Pentonits IN The Production of Active Immunity Against the Fatal Outcome of Experimental Facal Pen- tonitis	214
		FERIZ H Appendicular Me enteriolitis	214
SURGERY OF THE CHEST			
		Gastro Intestinal Tract	
Chest Wall and Breast		VAN BOGYERT L and VERBRUGGE J The Patho- genesis and the S rgs al Treatment of Gastn	
Lockwood C D Malignant Tumors of the V all of the Chest Corone Mastris Cysta-	208	Cri is of Tabes Neuro ann e tomy Latginsics A Alimentary Fever	200
Adenoma and Adenoma of the Breast	208	GAITHER E H The Life, to of Surgery of the Storn	
HAYWARD The Bleeding Breast Especially in the	203	ach on Its Sub equent Motor and Secretory Fun tions	\$5
Male RECOMOLE The Treatment of Carcinoma of the	200	COLE L G The Status of Poentgenology in Gastro-	
Breumouz The Treatment of Careinoma of the		Ent rolony	215

2 0

354

Bladder Urethrs and Penis Doctorri \ Reenigen Study of the Bladder in Obstiters and Gynecology. Husen E \ The Relation of Bladder Pressure to Bladder IP. The Relation of Bladder Pressure to Bladder B \ The Chical \ Section 100 open of the Chical \ Section 100 open \ Secti	253 256 257 257 257 257 257 253 258 258 259 259	DALL ACOUA V A New Method for Obtaining Lateral Projection of the Last Cenzial and First Dorsal Vertebra Grommey, R. R. and Bradtey J I Prognostic Signs in the V Rays of Tuberculous Spines in Children Children and Children Child	265 265 66 267 Etc 267 267 268 268 269 269
SURGERY OF THE BONES JOINTS MUSC. TENDONS Conditions of the Bones Joints Muscles Tendons Carrian v and Brinn J Can the Age of a Fetus He bettermined from the Degree of De elopment Control of Study Based on the base of the Center of Cas Study Based on the base of the Center of Taberta Baselin in Wanna Bone and Joint Tabertalosis.		Fractures and Dislocations Con to J. T. Non Union of Fractures. In Peper mental and Chin al Study. Mikray C. R. Fracture of the Classile Eirn-naw C. I. Fractures of the Elbow Through or Near the Lower Epiphysis of the Humeru. Octobor R. B. Compression I ractures of the Spine Hight V. I. Spontaneous De locations of the H.p. Joint During Lattle Like Report of Tweng.	2 0 2 0 2 0 2 7

26 t

21 L

61

63

61

61

54

f ±

203

INCRESTER D B Unusual I orms of O teomyehia FIANS, W. A. and I ELECTIA. T. The Value of keenigen Ray. Theraps in I many Malignant Tumors and Benign Ciant Cell Tumor of Bone Kertter V II Unu u l Tyr es of Osteogenic Sar

ker J 1 The Cytology of the Synovial Hund of Normal Joints Grace 1 The Pt logs of Rheumator I Arthreus

comata

STEN W G Acute Painful Ankylo ing Arthritis McFa Dry (D F Of stetrical Paralysis Some lact rs in Its I roducts n I rogress an i Treat

Garack J H Compound Injuries of the I tremities I was, Sia R Volkmann & Ischams. Contracture with Spaul Reference to Treatment

RULLING Laberiences with Postiraumatic I' cases of the Vertebre

Fight Cases 2 I

SWITT I P In Operation for the Reduct on of Lertain Types of Congenital Dislo ation of the Hip MALISON \ The Adaptive Chances in the Hip in

Congenital Di location and Their Importance in Treatment 2,2 CIL A B Operation for OH or Irreda able Con-genital D location of the Him 2 2

Junes] 1 Interarticular Di location of the La tella 273

SURGERY OF BLOOD AND LYMPH SYSTEMS Blood Vessels

KOSTER II and WEINTROB M. The Blood Surply to the Appendix

Mox RE K A The Circulation of the Normal Hu 65

man Lidney

CATHALA V and BARDY J Can the Age of a letus Be Determined from the Degree of Development of the Bones? A Study Easted on the State of the Centers of Ossification in Single Ovum Twins 10

HOFBAULE J The Structure and Function of the Ureter During Pregnancy

DUNCAN J W and SENG M I Factors Freds

VΙ

Uterus

C---- 11 11

HUNTER W. L. Diaphragmatic Herma

Giles P G Disphragmatic Hernia With a Report

GYNECOLOGY

.

Some of Colhoritates are must be washed interposition Operations and the Washed Interposition Operation Amusiana J C and Preserve O Tubernulosis of the Cervice of the Uterus Uterno Hismorphage and its Treat Surface J A Endomentions Following Salpun gettony MARD G G Padmum Therapy of Carcinoma of the Cervice Utern MULEAVY I F Radium in the Treatment of Carcinoma of the Muleavy I F Radium in the Treatment of Carcinoma Cervice and Interesting Microproperations NOVAE I and I YERRY II S Cyclical and Other Variations in the Tubul Purbeloum WILLIAMS J W Therapeuti Steriluation WILLIAMS J W Therapeuti Steriluation WILLIAMS J W Therapeuti Steriluation LEGGERE L and DE JOAN S E A Female (Sexual) Homono ALIZINE I LEAT J P NEWLE Q U and BLAND J RECOVERY Of Human Ova From the Uternot Cycle Miscellaneous Gies A E The Diagnosis and Treatment of Steriling	240 240 240	BERMAN S. The Phenoliteracthorphichein Test of Laver Eurocion in the Last Forumans of Presents of Pres	\$ 1 57 252 153
FORSDIKE S Diagnosis and Treatment of Sterility in Women POLAK J O and TOLLEFSON D G What Can We Learn from a Study of Mortalities?	243 46	Miscellaneous Doctrorrt V Roentgen Study of the Bladder in Obstetras and Gynecology	2 3
OBSTETRICS		GENITO URINARY SURGERY	
Pregnancy and Its Complications		Adrenal Kidney and Ureter	
SIDDALL A C The Hormone Test for Pregnancy		CRIE G W Clinical Studies of Adrenalectomy and Sympathectomy	200
Report II	247	HOFE-TER J The Stritture and Function of the Ureter During I regnancy	2,0
nancy Following Exploration of the Tubes by th Injection of Liptodol	247	DUNCAN J W and SENG M I Factors Predis	250
PREY E and LARDI F Heart D sease and P eg nancy and Abdominal Casarean Se t on under Local Anaesthesia in Cases of Heart Dise se	18	Moore R A The Circulation of the Normal Hu man Kiln y	254
LAGELSGIARD H DU A A Case of Bilateral Extra		DAVIS J F Th Surgical Pathology of Malforms tions in the Kidneys and Ureters	254
Court Fary A Acute Appendicitis with Rupture of	248	WILLAN R J A Giant Renal Calculus with Epi thelioma in a Horseshoe Kidney	2 4
a Bilateral Tubal Pregnancy	248	SCHOLEFILLO B G Renal Tuberculous The Heal mg of Tuberculous Sephrectomy Wounds	54
	249	MACDONALD S Teratoma of the kidney	255
REIS J Two Ob ervations of Pl centa Prævia Pefleva During I abor Diagnosis Symptoms		I OWER W F and BELCHER C W Conservative Kidney Surgery	255
Treatment by Low Casarean Section A Study of the Formation of the Lower Uterine Segment	49	BRAASCH, W P Stricture of the Ureter	256
Of the Lorentzian and an analysis and			

233

212

244

ANCROPT F W Acute Appendicus with a feet
ence to the Advances in Treatment During the
Last Ten Years and the Possible Progress for the
Ensuing Ten Years
BAYDEN F A An Analysis of the Reaction of the
Human Gall Bladder to Food
NOVAK E and EVERETT II S Cyclical and Other
Variations in the Tubal Epithelium

A . A . A Defea

I Recovery of Human Ova from the Uterine Tubes Time of Ovulation in the Menstrual

Cycle Hersen F W. The Relation of Bladder I ressure to Bladder Function

256 Key I A The Cytology of the Synovial Fluid of Normal Joints 263 208

Course W 1 Low Backache and Sciati a

McI speries H O Ulter Crurs The Hology Pathogeness and Treatment

STRONG L C The Non Genetic Appearance of Various Types of Neoplasia in Experimental Animals 278

General Racterial Protozoan and Parasitic Infections

Francey F M Histamine and Infection LONG P H ORITSAN P & and STEWART F W The Rôle of Streptococci in Experimental I oliomyelitis of the Monkey 275

Surgical Pathology and Diagnosis

DAVIN I I The Surgical Pathology of Malforma tions in the Kidneys and Ureters 254

AUTHORS OF ARTICLES ABSTRACTED

Forbes 1 205

Forestier 275

Abel A L 212 Adamson C I 199 Ahumada J C. 240 Allen A N 2.4 Allen F 244 Vilison \ 272 Antonucci C 259
Antonucci C 259
Baggoo C 234
Bailey H 267
Balado M 202
Bancroft F W 223 230 Bardy J 250 Bargen J \ 227 220 Barkan H 103 Barkan O 105 Barringer B 5 250 Baum H L 210 Ikleher (11 255 Bernan S 257 Bernstein B VI 21 B riwistle 1 1 2 6 Black K 227 Blair 1 1 197 Bland 1 244 Bland Sutton Sr J 200 Bompiani R 249 Hoyden F A 233 Braseb W F 256 Bradley J 1 at 3 Brakeley 1 130 Brandes 26 5 Brown J B 10 Burhholz, 200 Burhans, I C 103 Burnham II II 105 Cameron A T 199 Campbell VI F 201 Cambell II C 200

(athala \ 150

Car Lic

Chander t G 111

Chatk (1 10%

215 Corbrane W

Abbott I C 260

Cole I C 216 223 Corbett J J 193 Cowan J I 270 Crego C II 269 Crile G W 206 Cullen T S 240 Curtis I 102 Cutter I S 189 Cutting R 1 226 Dall Acqua V 26 Dalsace J 247 David V C 214 Davis F D D 194 Davis I 1 254 Davison W C 212 Dawbarn R Y 274 Deaver J B 238 De Jongh S F 2; De Jongh S 1 244 Desjardins 1 U 2 Diamond I S 232 27 Dogliotti V 253 Duncan J W 250 Dunlop D M 224 Farlam I 2 4 I Iwards A T 211 Fikenbary C F 10 Engel gaard II dl 248 Frdmann J F 215 I vans W El 24 1 verett 11 5 242 I atrohild F K 10 larmer \ W 104 larr C I 210 l liman M 213 lenton k 1 14 Fenz II 214 Finilay (M + 8 Findley 1 252 Finney J M T 3 Lianey J M T J Hint F R 21

l orsdike S 245 Franke L 202 Iraser J S 196 Frazier C H 203 Treezer C R I 275 Frey L 248 I nedenwald J 113 Fulton W 5 Gaither E II 215 (allagher W J 217 Garlock J H 64 (augier 275 Chormley R L 265 (alson A 263 (ibson (I 210 Cilson F I 100 Ciles 1 1 245 (les R (239 (18) A B 272 Globus J II 200 Coldblatt II 214 (ould F I 274 (rant | | | | | | | | | | | | (regg \ 1 276 Gnii th \ \ 61 Cullemia 1 45 Hanzlık I J 199 Hayward 203 Heald (B 2 Heidler II 252 Hel 1 1 W 233 Henry \ 1, 208 Hernaman J huson F 216 Herroll L D 255 III bs R 1 265 Hill L 200 None M 1 Hirsch F F 150 Hurch t W ast Il tzrot 3 VI 37

Hofbauer J 250 Horslev J S 217 Hosomi K 219 Hueper W C 198 Hunter W E 239 Hurst \ 1 226 Ibarz I L 134 Inglis L 225 Ivy R II 192 Jackson C 210 James R R 193 laroschy W 203 Joanniles M 211 Jol 252 Iones D F 215 Jones J I 173 Iones Sir R 264 Juli F S 235 257 Kall flei h W K 217 Kedler V H 262 Kerr J M M 228 Key J A 263 Koster II 229 kraske II 211 Kreis J 240 Luemmell 26, ladd W I 230 Lahev F II 23 Laqueur I 244 Lards 1 248 Larsell O 10 Laschi (201 Laurinsich & 215 Lenche R 207 Lewy \ 100 Lore F 247 Lockwood (, I) 201 Loeser 1 250 Long I H 2 8 Louns H 11 120 Lower 1 1 25 Ma Carty W (

275

275

232

239

275

275

75

25

276

274

212

213

COULD E P and PATEY D H Primary Throns bosis of the Anilary Vein 1 Study of Li ht Cases Diwbirs R 1 Eighau F and Lians W H
The Relation of the Blood Hatelets to Throm bosis After Operation and Parturition MILES I W and Surrenvick R. H. The Use of Foreign Protein in the Freatment of I empheral Vascular Diseases The Results of Intravenous In ctions of Typhoid Vaccine MACLEON SICARD PORESTIER GALGIER AND OTHERS Discussion on the Treatment of Varicose Ukers by Intravenous Injections McPHEETERS H O and RICE C O Varirose Veins Complication Direct and A ociated Following the Injection Treatment 11 eview of the Laterature Blood Transfusion

\$12516

DIAMOND J S The Value of Routine Estimations of Bloud Bilirubin With a Report of 66 Cases Including a Group of Unrecognized Total Heb atits Manple A D Refves 1] and Cons L C

Typical Hamolytic Agamia with Splenomegaly in Children

FREEZER C R E Hæmatemeus and Purnura Splenectomy Death from Perforation of a Duodenal Ulcer

Melana and Lumura Splenectomy Recovery RARE G W Preliminary Note on a Case of Hama temesis and spontaneous Ecchymoses MORTON PAINER F W The Hamotchame Dia

thesis in a Child of Twel e Samulating Chroni Gastric Ulcer EVANS 11 H The Blood Changes After Spienec tomy 11 Splenic Anemis Purpura Hamorrhag

ica and Scholutic Jaund ce with Special Refer ence to the Platelets and Congulation Lymph Glands and Lymphatic Vessels BERTWISTLE A P and GRICG A L Llephan

SURGICAL TECHNIQUE

Operative Surgery and Technique Postoperative Treatment DANBARS P Y CARLAM F and LVANS W. H.

The J elation of the Blood Platelets to Throm bosis After Operation and Partuntion

PHYSICOCHEMICAL METHODS IN SURGERY Roentgenology

MANCES B F Lung Abscess Following Tonsilled toms from the Standpoint of the Roentgepologt

POBERTS T Errors in th Interpretation of Radiograms of the Chest

COLE L G The Status of Rountgenology in Ga. tro-216 Laterology

LATERSON II J and HERNAMAN JOTTSON F The Fallary of X Rays in Abdomiral Dagnore 274 KALEFLEISH W & Diverticula of the Stomach BERNSTEIN B M Diverticulum of the Stomach Hern I W Poentgen Diagno is of Call Bladder 274

16

21

277

253

21

255

241

200

23

Di ease Moony P O and Lay Vrs R G Some Results of a Study of Roentgenor rams of the Abdomina

LOBRE F and DRISACE J Six New Las sol Prog nancy Following Exploration of the Tubes by the Injection of Lipsodol DOCLIOTE V Roentgen Study of the Diadder in

Obstetrics and Gyne ology VISITER T IV Bilateral Vesical Diverticula at the Ureteral Orifices Visualized with Lipiodol

Peport of a Case WESSON M B Patfalls in Urography

DIA > W A and LEICITH T The Value of Poentgen Ray Therapy in Primary Valgorial Tumors and Lerign Gian -Cell Tumor of bone Due Acqua 1 A New Method for Obtain no Lat eral Projection of the Last Cervical and First Dorsal Vertebra

GROUNLEY R & and BRADLEY J I Prognosti DESIGNOLS A U Padiotherapy in Actmony our

Radium

WARD G G Radium Therapy of Care nome of the Cervix Uten

MERRAY I' F Radium in the Treatment of Caronoma Cervicis and Intractable Menorrhagia

Miscellaneous

POINTE E A and SAWYER R A Physical and Biological I roblems in Heliotherapy DIXON IL C, and HEALD C B Litraviolet Rays and the General Public

MISCELLANEOUS

Clinical Entities-General Physiological Conditions Tannitus Aurium Some Consid WILLIAMS T I erations of Its Causes with Special Reference to Analogies

STOKER F The Nature of Proores ve Deafness 195 A Degenerative Di.ease

WINAGLEAUER A Experiments with Regard to the 106 Physiology of the Thyroid

HANGLIA P J TALBOT E P and GIBSON E E Continued Administration of Iodide and Other Salts Comparative Effects on the Weight and 100

Growth of the Body Har L The Ciliary Movement of the Traches

Studied in 1 tro FARR C E and BRAKELEY E Appendicules in

Children An analysi of Cas's from St Mary's Free Ho-p tal for Children and the First Surgical (Cornell) Division of the New Lork Hospital

BIBLIOGRAPHY

Surgery of the Head and Neck		Genito-Urmary Surgery	
IIa !	,0	Adrenal Aidney and Ureter	0
Lie	279	Bladder Urethra and Penis	200
Far	280	Genital Organs	20
Nose and Sinu es	281	Mi cellaneous	20
Mouth	251		
I harynx	251		
\ork	81	Surgery of the Bones Joints Muscles Tendor	15
		Conditions of the Bone Joints Muscle Tendons 1 to	298
Surgery of the Nervous System		Surgery of the Bones Joints Mu cles Ten lons 1 to	299
Bran and Its Coverings Cranish Nerves	282	I ractures an I Di locations	200
Spinal Lord and Its Coverings	251		
Jent h ral Nerves	33		
Sympatheti Nerves	243	Surgery of the Blood and Lymph Systems	
Vi cellan ous	S4	Blood Vessels	100
or tenan out	74	Blood Tran fusion	300
		Reti ulo I n lothelial Sy tem	301
Surgery of the Chest		I ymr h Clan is an i I ymr hatr Ve sels	301
Che t Wall and Brea t	54	tymp a c tan is and a your nate. To see	30.
Trachea I ungs an I I leura	11		
Heart an I I encardium	¥7	Surgical Technique	
G ophanis and Media timum	50	Orange of the second of the se	
Mi cellaneous	25b	Of crative Surgery and Technique Tost perative	
		Freatment	301
Surgery of the Abdomen		Anti eptic Surgery Treatment of Woun is and In-	
		And the 12	303
Il lomin I Wall and I critoneum	256		302
tro Intestinal Fract	290	Surgi al In truments and Apparatus	301
Liver Call Blad ler I an rea and Spl. n. Mixellaneous	9		
i senaneous	90	Physicochemical Methods in Surgery	
Gynecology		l oentgenology	302
Lierus		Ra lium	toz
Mineral and Lemutenne Conditions	90	Mr. clt neon	101
I sternal Cenitalia	291		,01
M sellmeous)		
- sentilends	,	Miscellaneous	
Obstetrics		(I all fittes General I by sological Confittions	30 \$
remancy and Its Complication		(eneral Ba terral I roto oan an I I ara iti Infe	
lat or and Its Complication	Q	tions	394
	- 24	Du tles Clands	301
	24	ough at lath logy and D gno i	304
M scell n ous	5 7 5	I sperimental Surgery	304
	20	Ho putal Made 11 lucation and the torn	

x

MacFarlane J A 229 MacLeod J M H 275 Mandl F 217 Manges W I 212 Mayer O 195 McClintic C I 25 McFadden G D F Mckendrick J S 228 McPheeters II O 75 2 8 Mi hon P 201 Millar T McW 224 Moll H 217 Moll on W M 198 Moody R O 2 8 Moore A B 231 Moore R A 254 Morley J 223 Morton Falmer T W 275 Murtay C k 270 Murray E I 241 Newell Q U 244 Novak I 242 O Connor D 198 Olitsky 1 K 278 O good R B 271 I alma R 200 I aterson H J 216 I atery D H 274

Petit Dutaillis D 203 I hemister D B 251 Poate II 225 Pohle I 1 277 Polak J () 245 Ponomarell A 251 Lortmann G 106 Pratt J I 244 Pre tini O 240 Rake (W 275 Reeve R J 218 Remann S P 238 Rey S 214 Rice 6. 0 275 Rieder 2 Rienhoff W F Jr 212
Rienhoff W F Jr 212
Ruser J C 26
Roterts F 213
Roterts W W 223 Robertson W 1 227 Romano N 214 Royle \ D 267 Royle V D 267 Sampson, J A 241 Sargent Sir P 202 Sawyer R A 277 Schmidt I L 259 S hnek I 203 S.holefield B G 25

Seng M I 230

Senall F C 193 197 Sharpe 1/ 5 193 Sheppe W 11 233 Sicard 275 5 Idall A C 247 Simmons C C 101 Slesinger E.G. 226 Smithwick R II 74 Sparks J L 214 Sprowl I G 202 Steinberg B 214 Steinforth T 253 Steinhardt B 252 Stern W G 63 Stewart II W 278 Stewart M J 226 Stilon \ 249 Stoler F 193 Stoler F 193 Strong L C 278 Swaim L T 267 Swett I P 272 Talbot E P 199 Tammann 236 Taylor J 237 Tenney C F 223 Thesen C F 196 Thompson H L 257

Todd II C 192

Tollefson D G 246 Truesdale P E 1 1 Turner A L 105 Vail D T Ir 191 Van Bogaert L 206 Van Nuvs R G 218 Verbrugre, J 206 Visher J W 2 7 Walker L. 238 Ward G (111 Warren R 275 Neutrob M 229 Wesson, M B 260 Whipple A. O 238 White F W 235 William R. J. 254 Williams, J. W. 243 Williams T. J. 195 Winkelbauer A 195 Womack \ \ 197 Wright A J M 20 Wright G 220 Watt, R B H 193 Yates L.L. 105 Youn J 232 Zinn W F 213

BIBLIOGRAPHY

Surgery of the Head and Neck		Genito Urinary Surgery	
lea i	2,0	Alternal Kidney and Ureter	295
Fie	279	Blalder Urethra and Penis	201
Fat	280	Genital Organs	2 Q
Nose and Sinu es	2Sr	Miscellaneous	20,
Mouth	SI		
Pharynx Neck	281 81	Surgery of the Bones Joints Muscles Tendon	ıs
		Conditions of the Bones Joints Mu cles Tendons Fite	298
Surgery of the Nervous System		Surgery of the Bones I into Mu cles Fendons I to	200
		Ira tures and Dislocations	201
I rain and Its Coverings Cranial Nerves	252	the care and protections	,,
sinal Cord and Its Coverings	523		
Lenpheral Nerves	183	Surgery of the Blood and Lymph Systems	
Syn pathetic Nerves Miscellaneous	283	Blood Vessels	300
suscenaneous	44	Bloo l Tran fusion	300
		Reti ulo-Endothelial System	301
Surgery of the Chest		Lymph (land and I ymphatic \essels	301
Chest Wall and Breast	84	-,-,	G
Trachea Lungs and Pleura	84		
Heart and Perseard um	40	Surgical Technique	
Gs pharus an I Mediastinum Miscellaneous	9/	Operative Surgery and Te huque Po toperative	30t
		Anti entic Surgery Treatment of Wounds and In	3
Surgery of the Abdomen		fection	302
ibd minal Wall and Peritoneum	50	\næsthesia	302
Gastro-Intestinal Tract	36	Surgical Instruments and Apparatus	302
I Net Gall Riad for Pancreas and School	40		
Mrscellaneous	90	Physicochemical Methods in Surgery	
C		Roentgenology	302
Gynecology Lterus		Ra lium	302
Adneral and I enuterine Cond tions	200	Mi cellaneous	302
External Genitalia	91		,
Vi cellaneou	g2	••	
	2 3	Miscellaneous	
Obstetrics		(lin al Intities-General Physiological Conditions	303
Pregnancy and the Complement		Ceneral Bacterial Frotozoan and Jara itic Infe	
	Q.	tion Ductless Cland	304
	04 20	Surgi al Lathology and Dagn 1818	304
	213	I sperimental Surgery	304
Mi Cellancous	113	Ho pital Med al I lucat on an I Hi torn	304

EDITOR'S COMMENT

N unusually large number of abstracts of par ticular interest to the orthopedic surgeon will be found in this month's issue of the INTERNATIONAL ABSTRACT OF SURGERY OSGOOD (p 271) again calls attention to the frequent occurrence of compression fractures of the spine and to the fact that they may easily escape recog nition unless a careful roentgenological examina tion is made which includes both anteroposterior and lateral exposures He points out the fact that in from 70 to 80 per cent of cases the fracture in volves one of four adjacent vertebræ-the two lower dorsal and two upper lumbar—and repeats what Kuemmell has emphasized so often that the first symptoms of the injury may appear after a period of comparative well being during which the possibility of spine injury may remain unsus nected

Campbell's review of the end results of arthroplasts of the hace with particular reference to twents two cases in which from four to many ears have elapsed sunce operation (p 260) shows what splendid results may be obtained by good surgery or on in unusually difficult cases. One statement is of particular interest—that operation following acute progenic infection of a single knee was succes ful in from 80 to 4 per cent of cases but that the same operation following virulent osteomys little settending through the joint was always.

Jones recommendations as to the treatment of Volkmann's sicherwic contacture (p. 204, early as do all his statements the weight of authority. He has consistently used mechanical extension of the joints with the aid of splints and states that he ha never had occasion to regret it. He has had title experience with operative measures but believes that Tage and Platt's operation—detach ment of the fievor russeles from their origin—is a logical procedure. In this connection Bailey's report of such an operation (p. 407) slightly modified and followed by an almost perfect result is of particular interest.

unsuccessful

The frequency with which stones may be present in the common duct with only mild symptoms of bilary colic or even without symptoms the fact that infection in the common and hepatic ducts may give n e to typical symptoms of stone

in the ducts and by inflammatory obstreiner cause considerable distantion of the common duct and the frequency with which paoreratins are crated with gail bladder disease are some of the points emphasized by Labey 190d and forest a symposium on the surgery of the bile passe ser concily presented before the Usasschuestis Mid call Society (p. 335) Of \$837\$ operations personnel in Labey 5 clinic for disease of the blady that 158 (nearly 20 per cent) were performed on the bile ducts.

In connection with this symposium Tamman's experimental studies on dogs with halay fisting (p. 260) is of particular interest. He found that feeding with or gail brought about reviewsor of the anamia which developed so frequently after obstruction of the common bid duct and that it has feeding was begun immediately after the formation of the fistial the anamia did not appear. He found further that the subextaneous administration of Vitamia D had a very favorable effect upon the esteomalicia which develops after a few weeks in does with blashy if the

The frequency with which gastrogianal wich was found in a series of autopsis on patients or was found in a series of autopsis on patients or whom it gastrojeiumostom) had been performed in the patient of the patient of the patient of the patient of the patient much more frequently than is generally become particularly significant is the fact that of fort two cases in the series reported in which at \(^2\) in me months intervened between the operator and the patients death jejunal or gastrogonal dicess were found in 52 per cent

Gibson a review of "12 cases of acute perforation of the stomach and doodenum (p 23) acute particular cords study of the advances of the past ten action to the study of the advances of the past ten acplant of the study of the study of the past ten act for the past ten act for the past ten act to the past ten acplant of the past ten act to the past ten act to the Emneys report of a successful case of particular section of the pancreas (p 23) are some ofter reviews of particular interest in the fell of addominal surgery. The importance of the state mentioned though the original article is verbriefly epitomized as self-evolution to the surgery familiar with the present day status of the surgery of the pincreas.

INTERNATIONAL ABSTRACT OF SURGERY

MARCH, 1929

LANDMARKS IN SURGICAL PROGRESS

By IRVING S CUTTER M.D. Sc.D. Chickgo Dean Northwestern University Medical School

RESECTION OF THE SUPERIOR MAXILLA—HORATIO GATES JAMI SON

M OST writers credit Joseph Gensoul (1797–1858) of Lyons with the first esection in 1826 of the major portion of the superior mavilla Opening the airle was an operation of fair frequency in the eighteenth century and this some times under demonal of portions of the bone. Even as early as 1693 Acolutins of Breslau practiced a partial resection of the Jaw

In 1 Century of 1 merican Med

America may justly claim the honour of hiving led the way in estimations of the upper jaw. Small portions it is true hid been thipped off in the eighteenth and even in the eventeenth century but the first grand and difficult but the first grand and difficult in the control of the control of

operation of the land of which we have an Amoul cipe was performed in 1850 by Dr. Horsto (Jameson of Baltimore who took away nearly the faultie bone one uide the roof of the antrum alone bonn left as it was not involved in disea. Research the state of the contract training the surgern was found bones a still greater trumph of surgern was found bones a still greater trumph of surgern was found to the surgern with the surgern was to be supported by the surgern was to be surgerned by the surgern was to be surgerned by the surgern was to be surgerned by the surgern was the surgern was to be surgerned by the surgerned



(17 8 1955)

Jameson s case was a tumor of the left superior maxilla in a male aged twenty six The patient had first applied to Dr Jameson in December 1810 but did not re turn for operation until the eleventh of November 1820 the tumor having grown rapidly dur ing the interval The case report was published in the American Medical Recorder of 1821 The article is illustrated with a view of the patient prior to operation showing the deformity occasioned by the tumor Jameson s second examination of the patient disclosed that

The base of the tumour extends from the middle of the pulatine arch to the ptery good process in I over all the space which had been occupied by the gums. The teeth

are long since forced out of their octets and are seen sticking in different and distant parts of the tumour. The base is so eer short that no veri distinct view of it can now be had. But from a clear recollection of its situation last vear together with a careful examination. It was of opinion and was joined in opinion by m friends Doctors Chapman, and Harper that the lines just mentioned included the cettent of its attachments.

In spite of the manifest difficulties and the lack of antecedent knowledge of the procedure Dr Jameson performed the operation at one sitting

EDITOR'S COMMENT

N unusually large number of abstracts of par ticular interest to the orthopedic surgeon will be found in this month's issue of the INTERNATIONAL ABSTRACT OF SURGERY OSGOOD (D 271) again calls attention to the frequent occurrence of compression fractures of the spine and to the fact that they may easily escape recog nition unless a careful roentgenological examina tion is made which includes both anteroposterior and lateral exposures He points out the fact that in from 70 to 80 per cent of cases the fracture in volves one of four adjacent vertebra-the two lower dorsal and two upper lumbar-and repeats what Kuemmell has emphasized so often that the first symptoms of the injury may appear after a period of comparative well being during which the possibility of spine injury may remain unsus pected

Campbell's review of the end results of arthroplasts of the knee with particular reference to twenty two cases in which from four to nine years have elapsed since operation (p. 260) shows what splendid results may be obtained by good surgers even in unusually difficult cases. One statement is of particular interest—that operation following acute pyogene infection of a single knee was successful in from 80 to 94 per cent of cases but that the same operation following virulent ostcomelities extending through the joint was always unsuccessful.

Jones recommendations as to the treatment of Volkmann is schemme contracture (p. 26) and the volkmann is schemme contracture (p. 26) are trained and line statements the neight of authority. He are the sounds with the and of spinits and states that he has never had occasion to regret it. He has had title experience with operative measures but be lieves that Page and Platt's operation—detach ment of the flevor muscles from their organ—is a logical procedure. In this connection Bailey is report of such an operation (p. 67) slightly modihed and followed by an almost perfect result is of particular interest.

The frequency with which stones may be present in the common duct with only mild symptoms of bilary colic or even without symptoms the fact that infection in the common and hepatic ducts may give use to typical symptoms of stone

in the ducts and by inflammatory obstrution, cause considerable distation of the common duct and the frequency with which parcetuits a sise-cated with gail biadder disease are some of the points emphasized by Labey 190d and Joness symposium on the surgery of the bile passagest cently presented before the Massachusetts Medical Society (p. 33) Of 837 operations performed in Lahey a Cinne for disease of the bilary tast 158 (nearly 20 per cent) were performed on the bile ducts.

In connection with this symposium Tanmans experimental studies on dogs with blain fability (p. 356) is of particular interest. He found that feeding with or gail brought about regression of the anxima which developed so frequently after obstruction of the common blae duct and that it has feeding was begon immediately after the formation of the fistila the anamed and not appear. He found further that the subcutaneous administration of Vitamin D had a ver favorable effect upon the osteomalacia which develops after a few weeks in dogs with blainty fistilar a few weeks in dogs with blainty fistilar.

The frequency with which gastropiumal ulcru was found in a series of autopase on patients on whom a gastropiumostom; had been performed indicates as Hurst and Stewart have pointed our much more frequently than is generally believe! Particularly significant is the fact that forty two cases in the sense reported in which as less mine months intervence between the operation and the patient is death jejunal or gristopiumal ulcers were found in 52 per cell.

Gibson's review of 12 cases on a carete performance of the storage and discounting 2.19 for the storage of the advances of the past ten scanned to the storage of the advances of the past ten scanned to the storage of the storage of

ART V Case of Tunou of the S persor Jose By H RATIO C James B M D f Balton ee

James L. de resolvagi he there by a year spik die mer ent he first political of the men the first political of the second of a term of the die self-second of the second o

Fac im le of first para raph of Jameson's original report

IP Jameson vasted Lurope and read an essay on the non contagousness of yellow fever before the Sects of German Naturalist and Physicians of the Sects of German Naturalist and Physicians of the Sects o

Becuse of Jameson a strong position as 4 suggaal leader he was vigorously opposed by tetian members of the medical profession and the report of a trail in which he weed Dr Frederick. I. B Hinsey for defination of character? supplies details of a presecution rarely recorded in medical annals. It appears that two seurrhous pamphetes had been credited against him misrepresenting his published reports and denying in certain features the authenticity of his operations. At the trial the allegations of the pamphiles were wholk deproved and Dr Jameson was given a complete vindiction. From these most crucil afternists to myoke him truit.

Among his man, outstanding surgical achievements mix the mentioned several cases of reduction of discovered shoulder joints of long standing histone of the external line artery—a successful tacheolom for the removal of a water melon seed lodged at the bifurcation of the trachea and amputation of the cervit for carcinomy (per

MislRecort j y so



Plate showing external appearsn e of tumor (accompanying original article)

formed in May 1524). He was an early expenmental investigator in the use of lightures of animal origin and his work strongly reinforced that of Philip Syng Physick, who in 1814 urged the employment of lightures of kid and chamios. He also wrote on lithotomy extraction of the lens removal of a tumor of the orbit hernia fistula in ano stricture of the rectum yellow fever and many other subjects.

Horatio Gates Jameson is entitled to enduring frue not only for his original and in many in stances bold surgical procedures but as Dr Marcy pointed out for his pioneer experimental studies on the ligation of blood vessels and his proof of the absorption of ligatures of animal origin

First mt speby (Nustin 4 llafter 4 #Ph E 768 87

Buffith fills C Jrs son by II by O Marcy MD South high I Cynec i pull section VANA to 7

The operation is described in Jameson's original report as consisting of four stages

First-Ligation of the left carotid in which a buckskin ligature was used

Second-Exposure of the tumor

I would have cut directly in the direction of the greater zygomatic muscle as a matter of choice but in consequence of the mouth's being greatly distorted the incision began a little nearer the nose and terminated about the origin of that muscle This incision was made by a single stroke of the knife and was conveniently performed without touching the tumour by my holding up the lip on one side of the knife while an assistant held up the other The labral and facial arteries bled freely as though no obstruction had been put upon the vessel below 1 proceeded to take up the superior portion of the facial artery but it was soon perceived that the hamorrhagy would be of short duration. The membrane of the mouth which connects the superior lip to the gums was next divided by one stroke of the knife on to the nose -a second stroke cut down that portion of the buccinator muscle which is at tached to the upper jaw. We had now some confirmation of the opinion which we had had of the extent of the attachments of the tumour but there was nothing like a pedicle or cervix all was firm and unvielding. Having now brought the tumour as much as possible into view without having done and injury to the parotid duct I proceeded to remove

Third-Deep dissection

the tumour

The tumout being now pretty well empited of its blood by presung it with a considerable degree of violence it was more distinctly seen that the base of the tumour extended along the pulatine arch nearly to the velum pendulum paliti the tumour boneser had forced this structure deep into the throat The incision was deepened by two or three bold strokes and all those structure of the price poly process—this part was got at with considerable difficult; but was removed with very fittle delay.

Fourth - Suture of skin flaps linen sutures

Three months subsequent to the operation Dr Jameson summed up the condition of his prinent as follows

From this time he has been gradually improving in beath and the swelling of the parts diminishing under the application of the vegetable caustic applied two of three times a week. Yet all at the price of times nearly three me and a new growth. The times the control of the con

ture. His health is excellent no pains remain and so far as we can forsee there is little or no probability of a return of the disease.

The case operated upon by David L Rogers is reported in the Aca I ork Medical and Phin al Journal for 1824. The extensive character of Rogers operation may be noted by the followin, except from this report.

An incusion wat made first through the bitmen of the upper lip which was discreted from the tenure and also of the nose so as to turn both portions of the lip over upon the cheek. The second in on was to detach the carnitageous portion of the serious manum from the top of the tumour. After a rate with the first moder tooth on each side a first stem of the control of the control

It will be noted that the patient in each case recovered and that each operation antedated that of Gensoul of Lyons

Horatio Gates Jameson was born in York Pennsylvania in 1 18 His father Dr Davi! Jameson a graduate of the University of Edin burgh emigrated to Charleston South Carolina in 1740 later removing to York Pennsylvania where his death occurred toward the close or the eighteenth century Dr David Jameson was an active practitioner and in a ldition took a leading part in the military affairs of the colonies servin as lieutenant-colonel of volunteers during the French and Indian War He was the medical preceptor of his son who began the active I rac Ke of medicine in 179, when seventeen years of ago After successive residencies in various Pennsy vania villages Horatio Jameson removed to Baltimore in 1810 there he attended medical lectures graduating in 1813 from the Medical College of the University of Maryland In 1827 despairing of ever becoming connected with the University of Maryland because of professional jealousies he joined with other physicians in Baltimore in founding the Washington Medical College under the charter of Washington College of Washington Pennsylvania In 1529 he began the publication of a quarterly medical journal entitled The Warsland Medi at Recorder though ably conducted this journal suspended publication with the issue of Vovember 1833 because of lack of anancial support. In 1830

recurrence developed. Two of the patients died from local extension and sepsis and one from metastaces

In the light of these results the appropriate treatment would seem to be wide local excision that is resection of the jaw. In the cases of women and young persons conservative operation may be done if the patient will agree to submit to frequent examinations and to radical operation if a recurrence develops A radical operation should be performed if the tumor is large or if the cuboidal type of cell predominates as this is probably the more malig nant form of growth

After resection of the jaw a prosthesis may be used or bone grafting may be done

IAMES B BROWN M D

Barkan O and Barkan H Fracture of the Optic Canal 1m J Ophth 1028 x1 767

For years it has been known that following a blow on the frontal region vision may be lost. The effect on vision is due to fracture of the optic canal with hamorrhage into the sheath of the nerve or laceration of the nerve or to fracture of the anterior throid process. General or local symptoms may be slight but perimetric fields show partial constriction in a fair percentage of cases

The authors have seen twenty two cases in six) ears and in this article report five with visual field

charts They believe that a sector defect extending to and including the macular region is sufficiently characteristic to be pathognomonic. They suggest early operation to remove pressure on the nerve VIDER WESCOTT M D

Jimes R R A Case of Brawny Tenonitis Brit J Ophik 1928 xii 524

In the case reported the right eye had presented a peculiar salmon tint and a semi solid appearing chemosis of the conjunctiva for about four years and recently the left eye had begun to be similarly affected the changes being noted fir t at the equator of the eyeball. On pressure the area of chemosis was slightly pitted. The Wa sermann reaction was negative

This condition was described by Stephenson in 1013 as brawny scleritis but in the opinion of Collins and the author it is a tenonitis

LESLIE L McCox M D

Hine M L and Wyatt R B H A Case of Neuro abromatosis of the Right Orbit Bril J Ophih 1928 XH 513

Neurofibromatosis affecting the eyelids is a rare condition and very seldom affects the orbit. In the case reported by the authors that of a man twenty six years of age the right upper lid was enormously thickened and the right lower his was solden and ulcerated The skin and underlying tissue in the right temporal and the right occupital region was

similarly thickened. The eye was blind the cornea being onaque and showed considerable surface vas cularization otherwise it was apparently normal The left eye and lids were normal

As the conjunctival discharge and ulceration of the lower lid could not be controlled and the right eve was blind enucleation was performed with removal of a large part of the upper lid and the lid margins were sutured together Recovery was uneventful

Microscopic examination of the tissues showed that practically all parts of the eyeball and orbital contents were involved in the neurofibromatosis

LESTE L. McCov M D.

Corbett J J Plastic Dacryothinostomy 1m J Othth 1928 X1 774

For successful results any operation on the tear sac must relieve and prevent the recurrence of both infection and epiphora Simple extirpation of the sac will remove infection but will not relieve epi phora

There are now three methods of operating to relieve both inflammation and epiphora West operation an intranasal approach (2) the Tota and Mosher Tota procedures a combined intranasal and extranasal operation and (3) the Dupus Dutemps and Bourquet procedures an extranasal operation

The author advocates the Dupuy Dutemps and Bourquet operation and describes it in detail LIBOU WESCOTT M D

Vall D T Jr Argyrosis of the Tarsal Conjunc tiva in an Infant Im J Ophth 1028 xt 282

Vail reports a case of membranous conjunctivities in a boy fourteen months old which was caused by the injudicious use of strong solutions of silver nitrate. When the child was a month old a mucopurulent secretion occurred in the right eye with the formation of a membrane on the tarsal conjunctiva Six months later the left eye became similarly in volved. Silver intrate solutions varying in strength from 2 to 5 per cent were used for months. In ulcer formed on the left eye which following Saemisch section became phthisical. As diphtheria bacilli were found diphtheria antitoxin was given occasions all granulation tissue and fibrous exudate was removed down to normal to sue. One radium treatment was given and resulted in a burn on the

cheek Following an examination of tissue removed by the author Verhoeff reported that the brownish

pigment granules were precipitated silver I HELL WISCOUT MID

Sewall E C Further Development of the Trans sphenoid Approach to the Uptic Foramen 4nn Utol Rhi of & Larragel 1978 xxxxii 830

While optic neuritis may be secondary to any of several foct of infection the author here refers to it principally as developing from sinus infection

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Todd II C Aseptic Cavernous Sinus Thrombosis J Ohlahoma State M 1ss 1928 xx1 286

Todd reports the case of a colored boy who was admitted to the hospital with pain and very rapid swelling of the left eye and orbit After numerous examinations by ophthalmologists thinglogists and other specialists the condition was attributed to a low grade infection of the left sphenoidal single causing an aseptic thrombosis of the cavernous inus This diagnosis was based upon (1) the history of rapidly developing exophthalmos more marked on the left than the right side which was only slightly painful but was associated with redness engorge ment and chemosis of the conjunctiva (2) increased intracranial tension as shown by a slow full ruly. (52 to 56) and marked engargement of the veins in both funds indicating an obstruction to the venous circulation in both eyes and (3) total absence of fever and other signs of sepsis the red and white blood count remaining practically normal

As a rule this condition tends to become cured spontaneously but in the case reported a subtemporal decompression was done to decrease the danger of blindness from intracranial pressure on the optic

The operation was followed by complete recovers

with no impairment of vision

In the author's opinion a thrombus in the caver nous sinus is formed as the result of extension by contiguity of tissue and in the early stages at least is aseptic IOTEN H GARLOCK M D

Ivs R If and Curtis L Some Orthopedic Prob lems of the Lower Jaw with Special Reference to Unilateral Shortening J Bone & Jet & Surg 1028 X 045

Unilateral shortening of the mandible causing a deformity very similar to that found in ankylosis but without limitation of the movement of the jaw usually occurs in childhood as the result of osteo my clitis and necrosis and less frequently as the result of fracture or the operative removal of a section of the mandible for turnor

Function and appearance in such cases can be greatly improved by osteotomy or division of scar tissue to bring the chin forward and to the midline followed by restoration of continuity by bone graft ing The two most suitable forms of bone graft for the mandible are a perio t al graft from the tibia and a thick graft from the crest of the ilium.

RICHARD I HERNDON M D

Simmons C C Adamantinoma 1nn Surr to 8 largym bos

Adamantinomata are not uncommon but are often confused with bone cysts benign giant cell

tumors or carcinomata They arise most often in the lower iaw from the paradental emthebal debris or the enamel organ. Similar tumors may occur in the hypophy cal region As the epithelial cells differentiate to a greater or less

degree the tumors vary in their appearance Grossly the tumors appear as multiple cists centrally placed in the raw. The cost expands the

law destroying the cortex

Although the growths are usually considered benign they are of epithelial origin and potentially malignant Iwo of twelve cases reviewed hoxed definite glandular metastases late in the disea e-in one of them fourteen years after the onset Barry found only two other cases of glandular metastases in the literature

The tumors are of slow growth One pat ent ded from local extension and sepsis after two years while in the case of another a specimen showing the same microscopic picture was removed twenty

three years after the first operation

The usual history in the cases reviewed was of a slowly growing jaw tumor that had had p evious treatment of various kinds apparently without being correctly diagnosed. In the mne spec m as studied a careful search revealed stellate cells in all, although the relative proportions of the types of cells varied within wide limits in the different specimens

Four of the patients were males The age of onset was between the thirteenth and seventy third years The upper jaw was affected in three cases and the

lower law in hine

I ray examination shows a characteristic picture of central destruction with a single or rumerous cysts The bone may be entirely absorbed The disease may be confused with benign giant cell tumor odontoma dentigerous cyst or osteomyelitu-

The condition causes no characteristic subjective symptoms There is a central tumor and if the bone has been destroyed a fluctuating cystic area will Though the diagnosis is usually be ed on the history of a long standing tumor the possibility of adamantinoma should be considered whenever there is X ray evidence of a central cyst

Contrary to the prevailing idea the results of treatment as regards permanent cures by conserva tive operation are di couraging. In all of ten cases in which conservative operation was performed a Sharpe W S The Influenzal Ear Proc Roy Soc M d Lond 1928 XXI 1923

During the course of influenza the author has noted several types of ear involvement. The first is characterized by the gradual onset of true nerve deafness which is of directly toxic origin and in few cales is followed by complete recovery The second is characterized by acute myringitis with intra membranous hemorrhages and is relieved by scari fication or myringotomy if bulging occurs third is characterized by inflammation within the tympanic cavity with severe symptoms but is completely relieved by myringotomy if the opera tion is performed promptly

Sharpe concludes that if involvement of the ears by influenza is seen early and treated energetically urgery of the mastord will eldom be necessary and complete recovery will usually result without com MANFORD R WALTZ M D

plications

Williams T J Tinnitus Aurium Some Consid erations of Its Causes with Special Reference to Analogies Inn Otol Rhin 1 & Laryng 1 1928 XXXIII 032

finnitus aurium is perhaps the most frequent complaint for which freatment by an aurist is sought. It is not a disease in itself nor a definite symptom of aural disease and its cause is still

unknown

He sing sounds usually indicate a labyrinth at the point of nerve termination. Clicking is attributed t) the spasmodic contraction of the salpingopharyn geus mu cle Bubbling noises may arise from an exulate in the mildle ear. I ul ating or beating notes are due to circulators disturbances causative factor may possibly be a general sclero is o theatton or calcification of the eighth nerve or cortex In some cases however the condition i of psychic or neurasthenic origin

CECR ER MCALLIPY M D

Stoker F The Nature of Progressive Deafness A Degenerative Disease J La angol & Otol 19 8 xlui 64

The author states that progressive deafnes is generally of institious symptomless and apparently causeless onset and when once initiated runs a persistent and usually uncontrollable cour e toward a tulmination which varies from a trifling loss of hearing to total deafne s. He di cus es the patholog ical changes and the relation of degeneration to the con lition JAMES C BRASWELL M D

Mayer O The Pathology of Otosclerosis Iro Rey Sec M d Lond to S x 1 189

In the author's opinion oto-clero is hould be re garded as a hyperply in The newly formed bony to be is an imperfect to sue distinctly elementary in type which is never found in the labyrinth cap ule in other conditions and hows marked hi tological variations. The variations are a feature of hyper pla ia an i tumors

The otosclerotic areas in the laby rinth can ule are really pathological growths which arise in connec tion with embry onic maldevelopments These areas usually appear in definite positions of the laby rinth The pre existing bone becomes absorbed cansule and new bone is formed

Disturbances of development of the inner ear and other parts of the auditory organ occur in otosclero There is a definite hereditary factor in this dis-

ease Degenerative stigmata are frequently seen The atrophy of the laby rinth almost always found in oto clerosis is due chiefly to the lack of develop ment of the middle ear in such cases. This is demon strated by certain malformations and by the tendency of the connective tissue to become ossified

In otoselerosis, the whole auditory organ has a morbid tendency and the laby inth capsule is fre

quently affected

The author has been impressed by the fact that in some instances of Paget's disease there are localized lesions similar to those found in otosclerosis. How ever in osteitis deformans the process is diffuse and the newly formed bone is better developed

Otosclerosis may be placed in a grouping based on anomalies of the connective tissue. These an omalies are expressed by such conditions as blue sclerotics osteopsathyrosis osteitis deformans and hypoplasia of vessels W. M. PATON M.D.

Yates A L A Working Hypothesis for Research in Otosclerosis Proc Roy Soc Med Lond 1928

Au liographs indicate three types of deafness (1) nerve or external ear deafness (2) deafness due to otitis media with adhesions, and (2) deafness due to acute or subacute otitis media and otosclero is

In otosclerosis progressively increasing departure of the graph from the normal can be demonstrated Clinical otosclero is is defined by the author as a condition is which Bezol's trind syndrome is present with patency of the eustachian tube and absence of demonstrable adhesive processes in the middle ear and of perforation of the membrane

Intes suggests that clinical otosclerosis may be at times the terminal stage of subacute offits media in which the products of inflammation are conveyed away by the custachian tube. He states that if a perforation forms in the membrane, the cale is not one of oto clerosis although the impairment of hearing may be similar. It is posible that a chronic inflammators process of the middle ear may bring about a pathological condition such as is found in otosclerosis The article contains repre entative audiographs W M LATON M D

I inell F A and Burnham H H The Production of Otitis Media and Labyrinthitis in Rabbits inn Ool Khinel - La v fl 1928 EXXVII 82

These experiments were undertaken with the of ject of making a detailed study of the changes in the middle ear after experimental infection of the middle ear cavity

of nerve compression in the canal Anysthesia is induced by means of scopolamine and morphine sulphate the injection of a per cent novocam and the intranasal application of cocaine crystals The incision is similar to that used by Sewall in the ethmoid sphenoid frontal operation but is modified to make a skin mucous membrane osteoplastic flap. The flap is to keep the frontal sinus from opening when the soft tissue retracts The ethmoid mass is exposed and the arteries are tied. After the ethmoids have been opened the lamina papyracea is removed the sphenoid is opened and the wall between the sphenoid and the depth of the orbit is removed. The thin bone between the sphenoid and the optic nerve is removed carefully with Jansen Middleton forceps If it is

He describes an operative procedure for the relief

be laid bare After removal of the upper and inner canal walls there is no longer any danger of pinching the nerve Becau e of the previous ligition of the ethmoid arteries no bleeding is encountered operation is finished the osteoplastic flap is turned back into place and the edges of the wound are fastened with metal skin clips

necessary to open the whole canal the dura must

CEORCE R MCALLIFE M D

EAR

The Diagnosis of Intracranial Farmer A W Lesions of General Interest to the Profession Referable to Diseases of the Ear Instral a 1928 11 520

Purulent laby rinthitis of the diffuse manifest type may occur whenever there is a fistula from the in fected middle ear into the labyrinth Severe vestibu lar symptoms are produced including headache violent vertigo with comiting and spontaneous nystagmus to the opposite side On destruction of the labyrinth the functional tests will reveal absolute deafness absence of response to the caloric and the rotation tests and a negative fistula symptom

Infection spreading into the mid-fle fossa pro-luces a subdural abscess. In the superficial type head ache may be the only symptom Headache peri orbital pain and sixth nerve paralysis indicate a deep subdural abscess Superficial and deep ab cesses also occur in the posterior fossa Meningitis con fined to the middle fossa may give rise to headache In basal meningiti headache is usually localized but may be general Lumbar puncture is a valuable diagnostic procedure and not dangerous The fluid is under increased pressure and is cloudy or purulent In tuberculous meningiti the fluid i clear and opalescent

Temporal lobe abscess may pass through two (r) a manifest stage in which signs and symptoms are present and (2) a latent stage which may last for several months with no symptoms beyond headache. In the manifest stage there is

drowsiness with headache localized to the temporoparietal lobe Sometimes tenderness is found in the area on percussion. Ny stagmus is fare except when the abscess ruptures into the ventricle Chol d disk is seldom seen A fairly constant sign is partial hemianopsia on the same side as the lesion. Anomia and paraphasia are common

Sinus thrombosis follows a persinal absers. The symptoms of sinus thrombosi are euphoria a siptic type of temperature with rigors hamatogenous icterus of the conjunctiva petechia of the skin and choked disk Choked disk appears late in th

discase

In cerebellar abscess nystagmus is an importin sign. It is usually coarser than the nysta mus du to suppurative disease of the labyrinth. It may be toward either side but it more u ually toward the side of the lesion. It increa es as the pressure le comes greater Choked di k is more common in cases of cerebellar abscess than in those of temporal lobe ab ce s \omiting and headache are con tant Definite vertigo is present. The patient tend to fall toward the side opposite the one on which the lesion is located Disdiadokokinesis is faith con stant

In acoustic nerve tumor produces dealness im nitus and vertigo with facial paresis. As the turor enlarges the fifth and sixth nerves become involve! Later the minth the tenth and eleventh nerves are affected. The chorda tympani is affected early with consequent loss of taste in the area supplied by R M Pero MD this nerve

Davis E D D Injuries of the Ear Arising from Fractures of the Skull Bil 3f J 1928 R, 141

The author believes that an aural examination should be made immediately after a skull fracture as it is then po sible to estimate the damage to the ear more accurately

In the majority of basal skull fractures the middle fossa is involved and when this is the cae the eustachian tube is apt to be injured Fracture of the internal ear and laby rinth is rare Profuse and prolonged bleeding from the external ear indicates hæmorrhage from the middle meningeal artery or rupture of the lateral sinus In cases of humorrhage from both ears the mortality is about 66 per cent whereas in those with homorrhage from one car

it is about to per cent In cases in which uppuration was present before the accident the probability of meningerl infection

is very great and the prognosis is correspondingly un favorable In cases of fracture of the middle forca peripheral paralysis of the facial nerve occurs in about 46 per cent but recovery results after a long interval The degree of deafness varies considerably depending on the local suppuration and inflamma tion but if improvement is to occur it i u ually apparent within eight weeks Suppuration calls for the establishment of free drainage through the drum and possibly mastoidectomy

GEORGE R MCAUDIF MD

Sharpe W S The Influenzal Ear Proc R 1 Sec.

Duning the course of influenza the author has noted several types of ear involvement. The first is characterized by the gradual onset of true never defausts of the second of true never defausts for the second of the second of the second of the second of the second is characterized by acute managits with intra membranous harmorrhages and is relieved by sears fection or mynoptoms, if bulging occurs. The third is characterized by inflammation within the tunpanic causity with severe symptoms but suppaired to the second of the second

Sharpe concludes that if involvement of the ears by influenza is seen early and treated emergetically surgery of the mastod will seldom be necessary and complete recovery will usually result without complications. Mayroun R. Watz W.D.

Williams T J Tinnitus Aurium Some Considerations of Its Causes with Special Reference to Analogies Inn Otol Rin Let Larringol 1928 23311 002

limitus aurium is perhaps the most frequent complaint for which treatment by an aurist is sought. It is not a di eise in itself nor a definite symptom of aural disease and its cause is still

unknown. Hissing sounds usually indicrete a lab) rinth at the point of nerve termination. Clucking its attributed to the systemotic contraction of the salyungophary news mucle. Bubbling noises may arrie from an owner of the modile car. I talksting or beating noises are considered to the salyungophary of the salyungophary o

CHERCE R MCALLIFF M D

Stoker F The Nature of Progressive Deafness A Degenerative Disease J Lary gol & Otol 9 8 alm 645

The author states that I sogressive dealness I creatile of missions synthomics and apparently cauches once and when once instinct I must be restricted as the most once instinct I must be restricted as a commation which varies from a triling loss of hearing to total deletine × He due sets the path logical changes and the relation of degeneration to the condition.

Sum: C. Benwitz, M.D.

Mayer O The Pathology of Otosclerosis Ir

In the author's opinion ofosclero is should be re Rivled as a hyperplia. The nexth formed bons it uses an imperfect its use distinctly elementary in type which is never found in the laboranth cap use in other conditions and hows marked by tological with the conditions. The variations are a feature of hyper pla is and tumor. The otosclerotic areas in the labyrinth capsule are really pathological growths which arise in connection with emby one maddevelopments. These areas usually appear in definite positions of the labyrinth capsule. The pre custing bone becomes absorbed and new bone is formed.

Disturbances of development of the inner ear and other parts of the auditors organ occur in oto clero sis. There is a definite hereditary factor in this disease. Decementative stigmant are frequently seen.

ease Degenerative stigmats are frequently seen. The atrophy of the lab; nmth shnost always found no otoscleross; is due chiefly to the lack of develop ment of the middle ear in such ca es. This i demon strated by certain malformations and by the tendency of the connective tissue to become ossified.

In otosclerosis the whole ruditory organ has a morbid tendency and the labvanth capsule is fre quently affected

The author has been impressed by the fact that in some instances of Jaget's disease there are localized lessons similar to those found in not oclerosis. However in ostetus deformans the process is diffuse and the neally formed bone is better developed.

Otosclerosis may be placed in a grouping bised on anomalies of the connective tissue. These an omalies are expressed by such conditions as blue sclerotics osteopsathyrosis osteitis deformatis and hypoplasia of vessels.

WM 1 km M D

Yates A L A Working Hypothesis for Research in Otosclerosis Proc Roy Voc Med Lon 1 1928 xm 1997

Au liographs indicate three types of deafness (1) nerve or external car deafnes (1) deafness due to otitis media with adhesions and (3) deafness due to acute or subacute or titis media and otoschor is

In otosclerosis progressively increasing departure of the graph from the normal can be demonstrated Clinical otosclero is a dehne l by the author as a condition is which Bezold's triad syndrome is present with patence of the custachian tube and absence of demonstrable adhesive processe in the middle ear and of perforation of the membrane

Vites suggests that clinical otosclerosis mas he at times the terminal stage of subacute oftitis media in which the products of influmnation are convey? away to the exactachian tube. He states that perforation forms in the mentionare the care is not set of oto clerosis although the impuriment of one of oto clerosis although the impuriment of influence of the model of the care is not influence of the model of the care in the influence of the model of the model of the care is not of the model of the care in the care is not of the model of the care is not of the care in the care in the care is not of the care in the care is not of the care in the care in the care is not of the care in the care is not of the care in the care in the care is not of the care in the care in the care is not of the care in the care in the care is not of the care in the care in the care is not of the care in the

I inell L A and Burnham II II : The Production of Otitis Media and Labyrinthitis in Rabbits Inn O 1 Eh nol Clay (1 1928 xxxxxx 782

These experiments were un fertaken with the olject of making a detailed study of the changes in the middle ear after experimental infection of the middle ear cavity The organism used has a hemolytic streptococus obtained from climical cases of scarlet feer. Two or 3 cm of a dilute broth culture were injected at a time through the tympania drum membrane at intervals of from two to four weeks. While the animals recovered promptly after the first injection it was noted that recovery became progressively the animals were killed and there is an injection the animals were killed and the first of the first injection that of the control of the control

Abundant evidence of inflammatory bone disease and attempts at bone repair were found. In many instances the stapes had been attacked. Masses of granulation tissue were present. In one case the laby mith had become involved through the oval and round windows. Google R MCALIFF M.D.

Lewy A The Influence of Fluorine on the Bony Labyrinth of the White Mouse (Mus Mus culus Albinus) Prellminary Report Arch Oldsryngol 1928 vm 315

Lesy states that fluorine is a factor in bone metabolism. In the white mouse its influence seems to extend to the bony labyrinth of the ear an observation which suggests to the otologist the possibility of using fluorine in the treatment of too scleross.

JAMES U. BARSWEIL, M.D.

Tutner A L and Fraser J S Labyrinthitis a Complication of Middle Ear Suppuration A Clinical and Pathological Study J Laryngol & Olol 1918 zhu 609

Of thirty one cases of labyrinthitis in which the authors made microscopic studies the condition followed acute middle ear suppuration in five and chronic purulent otilis media in twenty sir. Only three cases with involvement of the inner ear could be attributed to acute middle ear suppuration.

Of the twenty sur patients with labyrinthitis following chronic middle ear suppuration all but three were under thirty one years of age. The cause of the original ear discharge was ascertained in seven cases. In five it was measles and in two scarlet fever

Cholestatoms was noted on otoscopic examination at operation or on subsequent microscopic examination in thenty of the twenty as cases. Per assuma shoress was present in eight cases. There was only one case of serous labyrinthities. In six cases recommended ably inthities was found in the laster canal and in one case in the cochlea. The purplent stage was noted in thirteen cases but in five of these there was evidence of granulation or connective tissue. Just C Bax was Mt D.

Portmann G Vasomotor Affections of the In ternal Ear Pr c Roy S c M d Lond 1928 xx1 1917

Va omotor di turbances may be considered as among the most pathognomonic and the most im portant affections of the internal ear. The symptoms are vertigo caused by sudden vasodiatation following spasm such as occurs in the sydinace of Lermoge or ob a pronounced suchma child labyrinth such as occurs in Menures of an tinnitis indicating cochlear involvement as an oduced either by vasoconstriction or visodilation vestibular irrability evidenced by hypercobbility in vasoconstruction and vasodilation and deefiness caused by vasoconstriction

The angiospasmodic syndrome of the likymid includes (1) tinnities (2) deafness and (1) syn pathetic hypertony. The syndrome of bypertony is the same with the addition of vestibular hyper excitability and sympathetic hypertony. Both yieldomes may alternate one may predominate over the other or at times the sympathicotone may predominate at the level of one organ and the

parasy mpathetic at the level of the other. The causes of vagosymathetic troubles at therefore of labyrinthine vascular spasms may be mechanical endocramial tome or pixche. It most important causes acting on the regulating apparatus are the action of the nervous system and the action of the endocrane glands especially the supraremal Margora R natz M D

Fenton R A and Larsell O The Mechanism of Pain Transmission in Certain Types of Otalgis Ann Ciol Rh of & Larrage 1918 xxxvx 139

The authors state that investigation of the error handley of the sphenopalitation is as area so complex. I samoutor changes 16 tration infection or pressure in the photopalitation of the sensor, distribution stimulates the palitate serial and other viscretal sensory fiber. Such implies passing through the great superficial petron for the generalized ganglion come in the simulation of the sphenopalitation of the

GEORGE R MCATLIFF VID

NOSE AND SINUSES

Theisen C F Ethmoiditis in Infants and in Young Children with Accompanying Eye and Orbital Complications 4rch Oldarynt i 1915 viu 386

The author reviews tharty one cases of ethnodius in very young children. In six there were et and orbital complications, and in six others the ethnodius was associated with maxillary inusitis. The most frequent causes of ethnodius are com.

mon colds scarlet fever measles influenza and diphtheria. The condition is favored by e li gel tarsils and adenoids tuberculous tendencies and congenital syphilis.

The best aid in the diagnosis is the \ ray

Theisen believes that conservative treatment is indicated especially in the cases of children. To improve aeration of the sinuses he uses an ephedime spray He employs radical operative measures only when severe eye orbital or systemic complications are present and then operates externally through a killian micision

Six cases in which operation was necessary are reported George R McAuliff M D

Senall E C The Diagnosis and Treatment of Chronic Natillary Sinus Infection Extension of the Technique to Include Control of Harmon rhage by Ligation of the Terminal Branches of the Internal Matillary Artery and Resection of the Middle Metatal Wall Giring Operative Approach to the Ethmold and Sphenold Sinuses Arth Ololaryagio 1928 vm 49.

In the diagnoss of chronic maxillary, sinustitis the buttory the symptoms the findings of the physical \(\text{Lay}\) and cytological examinations and the results of irrigation must be taken into consideration Sinustitis to be suspected in cases of recurrent colds in rapid succession in which smears and the cytological examination show an increase in the number of leucocytes Negative roentgenograms in the presence of a nasal discharge cannot be regarded as conclusive evidence of the absence of sinustics.

If possible persons suffering from chronic maxil lary sinus infection should move to a region with a warm dry climate. The non operative treatment of the condition consists in the use of local measures to decrease swelling in the nose and promote drainage When surgery is indicated the author performs a radical Caldwell Luc operation with removal of the middle meatal wall. To prevent bleeding the ter minal branches of the internal maxillary artery are ligated where they enter the nose. The infra orbital and supra orbital ethmoid cells are exenterated and the sphenoid is drained. If necessary a frontoethmosphenoidectomy is performed later. All of the surgery is done under local anaesthesia. One hour before the operation the patient is given 1/100 gr of scopolamine and 34 gr of morphine procaine hydrochloride is injected along the gingivolabial margin and cocaine crystals are applied intranasally GEORGE R MCAULIFF M D

MOUTH

Blair V P Brown J B and Womack N A Cancer In and About the Youth in Sr g 1928 lxxxm 705

Cases of cancer in and about the mouth are grouped by the authors according to the anatomical site of involvement chiefly because of the relation of the latter to the treatment and prognosis and because such a grouping facilitates classification his long taking and presentation

The term carcinoma of the jaw is not used because bone involvement is secondary and only incidentally influences the treatment

Crowths with wide extension or metastases are put in the group corresponding to the primary site of the growth There are cases of tumors of the neck in

which no primary growth site can be determined but the majority of neck tumors are metastatic from some unrecognized growth in the upper respiratory or directive tract

Four arbitrary clinical stages are distinguished which are of practical use as a basis for treatment

and prognosis from clinical findings

Biopsies are done in most cases before treatment is begun, both for confirmation of the diagnosis and

for the determination of the relative degree of malig nancy of the growth In arriving at a plan of treatment and the prognosis clinical and microscopical findings are considered

In arriving at a plan of treatment and the prognosis clinical and microscopical findings are considered together. No one criterion has been found to offer an accurate basis of prognosis as regards life

Growths may be held in relative abeyance for a time but later take on much more rapid growth if not a true increase in malignancy. In the cases re viewed there was a higher percentage of undifferen isated growths in the late than in the early stages.

There has been observed a type of growth that in its clinical aspects is cancer but in which the micro scopic picture does not show the typical definition of cancer. Such growths may cause great destruction if they are not treated at least locally as cancer.

The degree of mahgnancy of metastatic gland car cunoma follows fairly closely that of the primary growth There may be no microscopic evidence of malignancy in the regional glands but this does not

necessarily mean that the glands are not affected Of the cases received the results were of course best in those in which no carcinoma was found in the glands. However there were cases in the series showing that undifferentiated carcinoma even in the glands of

the neck is not an absolutely hopeless condition.

The operative mortality was high—21 5 per cent.

All but one of the deaths occurred in advanced cases.

in which very radical operations had been done.

The farther back in the mouth and phary nx the operation is carried the higher the mortality. This is probably due to increased liability to respiratory infection.

The results of treatment are tabulated lakes B Brown M D

Fairchild F R Cancer of the Lower Lip Sug gestions as to Operative Technique in Plastic Repair 4rch Surg 1928 xvii 630

In the operation for cancer of the lower lip which is advocated by the author vertical incisons are made at each side of the tumor through the entire thickness of the hip and are connected at their lower ends by a transverse incision the cancer then being removed in a rectangular mass. The vertical incisons are then prologed downward in an obliquely vectoral direction to mobilize a flap of issue to be vectoral direction to mobilize a flap of issue to be the prologed downward in an obliquely incison to the prologed downward in an obliquely incison to the proposed of the submertal flap and in obed glands are excised. In the next step buccal mucous membrane flaps are prepared as a luning or the skin flaps and sutured with interrupted squires

of chromic catgut The original skin flap and mucous

The organism used was a hamolytic streptococcus obtained from clinical cases of scarlet fever Two or 3 c cm of a dilute broth culture were injected at a time through the tympanic drum membrane at intervals of from two to four weeks. While the animals recovered promptly after the first injection it was noted that recovery became progressively more delayed A few weeks after the last injection the animals were killed and the temporal bone was fixed in formalin decalcified sectioned and stained with hæmatoxylin and eosin

Abundant evidence of inflammatory bone disease and attempts at bone repair were found. In many instances the stapes had been attacked. Masses of granulation tissue were present. In one case the labyrinth had become involved through the oval and round windows GEORGE R McAULIFF M D

Lews A 'The Influence of Fluorine on the Bony Labyrinth of the White Mouse (Mus Mus culus Albinus) Preliminary Report irch Ololaryngol 1028 VIII 315

Lewy states that fluorine is a factor in hone In the white mouse its influence seems to extend to the bony labyrinth of the ear an ob ervation which suggests to the otologist the possibility of using fluorine in the treatment of oto clerosis JAMES C BRASWELL, M D

Turner A L and Fraser J S Labyrinthitis a Complication of Middle Ear Suppuration Clinical and Pathological Study J Laryngol & Otol 1928 Ilm 609

Of thirty one cases of labyrinthitis in which the authors made microscopic studies the condition followed acute middle ear suppuration in five and chronic purulent otitis media in twenty six Only three cases with involvement of the inner ear could he attributed to acute middle ear suppuration

Of the twenty six patients with laby pothitis fol lowing chronic middle ear suppuration all but three were under thirty one years of age. The cause of the original ear discharge was ascertained in seven cases In five it was measles and in two scarlet fever

Cholesteatoma was noted on otoscopic evamina tion at operation or on subsequent microscopic ex amination in twenty of the twenty six cases sinus abscess was present in eight cases. There was only one case of serous laby rinthitis. In six cases circumscribed laby rinthitis was found in the lateral canal and in one case in the cochlea. The purulent stage was noted in thirteen ca es but in five of these there was evidence of granulation or connective JAMES C BRASWELL M D tiesure.

Lasomotor Affections of the In Portmann G Proc Roy Soc Med Lond 19 8 ternal Ear XX1 1917

La omotor di turbances may be considered as among the most pathognomonic and the most im portant affections of the internal ear The symptoms are vertigo caused by sudden vasodilatation

following spasm such as occurs in the syndrome of Lermoyez or by a pronounced ischemia of the labyrinth such as occurs in Meniere's disease tinnitus indicating cochlear involvement and produced either by vasoconstriction or vasodilatation vestibular irritability evidenced by hyperexuta bility in vasoconstriction and vasodilatation and deafness caused by vasoconstriction

The angiospasmodic syndrome of the labriath includes (1) tinnitus (2) deafness and (4) sym pathetic hypertony The syndrome of hypertony is the same with the addition of vestibular hiper excitability and sympathetic hypertony Both syn dromes may alternate one may predominate over the other or at times the symnathicotonic may predominate at the level of one organ and the parasympathetic at the level of the other

The causes of vagosympathetic troubles and therefore of labyrinthine vascular spasms may be mechanical endocranial toxic or psychic The most important causes acting on the regulating apparatus are the action of the nervous system and the action of the endocrine glands especially the MAYFORD R WALTE WD suprarenal

Fenton R A and Larsell O The Mechanism of Pain Transmission in Certain Types of Otalgia

Ann Olol Ahmol & Laryngol 1918 xxxvii 730 The authors state that investigation of the neurohi tology of the sphenopalatine region is difficult because of the lack of fresh material and the in adequacy of degeneration studies of fibers and cells in an area so complex Vasomotor chan es infil tration infection or pressure in the sphenopala sensory distribution stimulates the palatine seventh and other visceral sensory fibers Such impulse passing through the great superficial petrosal nerve to the geniculate ganglion come into relation to the somatic sensory cells and fibers of the ramus cuta neus facialis transferring the pain impulse to the auricular and mastoid region GEORGE R MC VULIFF M.D.

NOSE AND SINUSES

Ethmolditis in Infants and in Theisen C F Young Children with Accompanying Eye and Orbital Complications Arch Otoloryngei 19 8

The author reviews thirty one cases of ethnochti in very young children. In six there were e)e and orbital complications and in six others the ethmoid ttis was associated with maxillary sinusitis

The most frequent causes of ethmoiditis are com mon colds scarlet fever measles tracensa and The condition is favored by enlar ed diphtheria tonsils and adenoids tuberculous tendencies and congenital syphilis

The best aid in the diagnosis is the \ ray Theisen believes that conservative treatment is indicated especially in the cases of children improve aeration of the sinuses he uses an ephednic aureus. The patient later developed many meta static infections and died at the end of three months vulops) showed that the suppuration had occurred in an adenoma and by burrowing had lifted the cap alse from the right and left objec. The gland was filled with adenomata which showed signs of recent inflammation.

Burbans points out that the rich blood supply and the production of thyroil hormone tend to prevent infection of the thyroid while the physiological changes of puberty menstruation and pregnancy acute infections and the formation of adenomita tend to lower the resistance of the gland.

Thyroiditis may be of the acute or chronic type. The acute type may resolve or go on to suppuration

and gangrene

The condition occurs more frequently in females than males It may result from direct traum or in fection of the gland by way of a persi tent thyro glossal duct direct invasion from continguous structures or metastasis by way of the lymphatics or blood stream Metastasis by way of the blood stream Metastasis by way of the stream is the most common mode of infection.

The chief symptoms are pain over the thyroid swelling of the thyroid or of an adenoma, tenderness of the thyroid childs and fever coughing hourseness and aphonia dyspinea dysphagia and thyro loxicosis. In case of abscess there will be fluctuation

in the tumor mass and redness of the overlying skin Thyroiditis must be differentiated from hyper trophy of the adolescent thyroid hymorrhage into the gland malignancy glossitis abscess formation at the base of the tongue bronchial and thyro glossitistic production of the laryngeal car hibrary and historical states.

tilages and celiulitis and phlegmon of the neck
The prognosis is generally favorable if the condition is recognized early and treated properly

The treatment should usually be con ervative in cases of the non suppurative variety and surgical in cases with suppuration PAIL W GREEKEY M D

Hanzlik P J Talbot E 1 and Gibson E E Continued Administration of Iodide and Other Salts Comparative Effects on the Weight and Growth of the Body 1 ch I st M d 1928 vin

The authors studied the effects of the administration of iodides and other salts on the weight and growth of rats during from one seventh to seven inelities of the life span of these animals. They draw the following conclusions:

1 The continued administration of iodide in small daily does in food over long periods (covering from about one seventh to seven twelfiths of the span of high to rais caused moderate though variable, increases in weight and growth of the book in

the majority of the unimals on a complete dietary. The same tendency was indicated in rats on a deficiency diet

2 The dosage of todide employed corresponded to that which may be employed under clinical conditions but was probably greater than that used as iodized table salt.

3 In contrast to the results obtained with iodide were those obtained with sulphocy anate brounde arsenic thallium and manganese used as controls under the same conditions. These salts reduced the body weight and growth and arsenic and thallium caused fatalities.

4 The results obtained with the iodide corrobo rate and correlate with interesting and important results obtained with small doses of iodide reported

in the literature of veterinary medicine

5 Hence there is no reason to believe from these experiments that the prolonged use of todide in small doses under ordinary conditions is detrimental. On the contrary the results along various lines indicate that it is beneficial. This would not apply to the continued use of todide in specific condition of the this yould or to large doses of the drug.

JACOB M MORA M D

Adamson G L and Cameron A T The Pre Operative Treatment of Graves Disease by a Combination of Iodized Fatty Acid and Vi tamins A and D Canadian V Ass J 19 8

Harvey noted that in goats fed with cod liver oil which contained a slight amount of iodine more iodine passed into the milk than when a corresponding amount of iodides was fed. This observation suggested that some of the constituents of cod liver oil have an influence on iodine metabolism.

Rabinowitsch suggested the use of a preparation of iodized jecoleic acid incorporating the vitamin concentrate of cod liver oil. This preparation is

called vitio lum

In a series of eleven cases of Craves disease the authors made investigations to determine whether the soline fraction the vitamin fraction or the combination of the two is necessary for the favor able results obtained by Mason and Rabinowitsch using vitodum instead of Lugols solution. In two cases they found that neither the vitamin not cases they found that neither the vitamin solutions of the control of t

The glands removed after the administration of vitiodum were histologically similar to those removed after treatment with Lugol's solution

T S MODERY M D

flaps are then sutured and brought into place as a new ho

The advantages of this operation may be sum marized as follows

There are no contractures to decrease the size of the mouth There is no interference with the most radical

extirpation of the tumor along with glandular enlargements

The operation may be completed in one stage There is no tightening of the lip

A sulcus of normal depth is formed in front of CEORGE & MCAULTER M D

PHARYNX

Hueper W C and O Connor D Agranulocytic Angina Lary 1goscope 1928 xxxvm 670

The authors report five cases of agranulocytic angina All terminated fatally. No evidence of contagiousness of the disease was proved

The unknown torus element in the condition in jures not only the granulocytic system but also the lymphatic system as evidenced by the marked ab solute deer use in the lymphocytes in the blood and atrophy of the lymphatic tissue in the spleen and lymph nodes MANFORD R WALTZ M D

Mollison W M Dysphagia Due to I haryngeal Paralysis Proc Roy Soc Med Lond 1)28 TX: 1777

Dysphagia due to paralysis of the pharyngeal wall is uncommon The different types are (1) the central or nuclear from bulbar paralysis localized hemorrhage or embolus (2) the intracranial or infranuclear from pachymeningitis and tumors and (t) the extracramal at the base of the skull from tumors glandular involvements diphthena and lead por oning

I aralysis of the pharynx from central lesions as described in the textbooks is unusual. As a rule it is progressive and fatal but the author reports six cases with recovery in five. In most of these the condition occurred following a marked straining ef fort such as that of coughing or vomiting and ex-amination showed a small hamorrhage into the bulb After recovery there was a re idual pharyn real weakness

The author reports also a case of pharyngeal paralysis due to peripheral nerve paralysis two cases due to polio-encephalitis and two cases due to a lesion at the base of the skull

FRINA B BERRY M D

NECK

Experiments with Regard to the Winkelbauer 4 I hysiology of the Thyroid (Programent lies zur Physiologie der Schilddruese) Bei s ki : Cl : 1028 Ctht 707

Basing he work on Breitner's studies on the histological picture and the functional activity of

the thyroid Winkelbauer made a scries of eigen ments on animals to determine what happens as re gards the todine content of the thyroid when the gland has been reduced in size by one half and in creased demand are made on the remaining to se demands which according to the results of Breitner

experiments are manifested by increa ed secretion In six dogs one half of the thyroid was estimate and its iodine content determined. The quantitative determinations were made according to Fellenberg method From ten to fourteen days later the re maining half of the thyroid was removed and it

rodine content determined

It is to be assumed that iodine plays an importin rôle in the production of a fully normal secretion This is evident from the particularly high room content of the thyroid Therefore if the thyroi represents in a fashion the central depot for iodin in the organism then under normal conditions certain quantity of gland tissue corresponds to certain quantity of iodine of course in one and the same individual When the gland is decreased a size by one half the remaining half which is doin more work than before without doubt require mor iodine and since the two halves may be assumed t be of approximately the same size it is to be en pected that the organism will place truce th quantity of iodine at the disposal of the remaining portion of the organ Accordingly we would exper to find about twice the quantity of jodine in th remaining lobe of the thyroid

It was discovered however that while the sodin content of the remaining lobe was increased to the increase neve some cases considerably amounted even approximately to double the first quantity perhaps because of an increase in the dis charge of gland secretion from the remaining thi to tissue In a dog with a pronounced colloid strum a very marked difference was found in the toda content of the two balves. Here the increased se cretion was clearly evident According to Winkel bruer this is brought about only through the fac that the pathologically changed gland does no pos ess the capacity of normal gland t sace to pict up rapidly the iodine offered it by the organism an thus repair the dencit It appears that the patholog cal changes of the colloid struma include not or an enlargement and increase in volume of the gland and the retention of colloid but also a di turbane of the capacity of the gland to take up todine

hans E C Acute Thyroiditis a Study of Sixty Seven Cases S & Gynec & Obst 19 Burhans E C

Acute thyroiditis 1 more common than is gen erally believed. The author has found more that 200 cases recorded in the literature. He reports case in which a diagnosis of acute thyroi his wi suppuration and diabetes was made an I the swelling in the neck was opene I un ler local anæsthesia and drained Cultures of the pus showed staphylococcu meningomyelocele strongly favor this conception Case 3 differed only in that the hydrocephalus was less marked and slower in development. The explanation is that some of the channels opened and allowed a partial distribution of fluid.

In Case 4 there was an acquired form of hydro cephalus due to adhesions formed by a menin gococcus meningitis. Although this case was histo logically different from the first three cases the

effect was the same

In Case 5 there was a history of trauma without evidence of infectious meningitis. The presence of degenerating blood elements and the patchy distribution indicated a sterile reactive leptomenin gits a postirumatic posthemorrhagic organizing process in the pia arachhord. As many areas remained naters the hidrocenhalus was milk.

These cases are interpreted as supporting Dandy's observations on communicating hadrocephina Dandy claims that the subarachnoid space with its menotibelal liming is an absorbing surface which is according to Weed the fluid filters through the according to Weed the fluid filters through the parchonian bookles. Both Dandy and Weed greet that a patent subsrachnoid space is essential for the normal distribution of excelerospinal fluid and at a eduction in the absorption of cerebrospinal fluid causes hydrocephalis.

causes nyurocepnatu

To distinguish between the obstructive and communicating forms of hydrocephalius a neutral so bettom of phenosluphonephthalien is singected into the ventricles. In the obstructive type the dive is not recovered in fluid obstanced by spinal puncture and there is almost no exerction of the dy by the kidneys in two hours. In the communicating type the dye is found in the spinal fluid immediately and from 2 to 5 per cent is excreted by the kidneys in two hours.

So per cent is exercted by the kidneys in two hours.

Michon P The Spinal Dagger Thrust the Initial Symptom of Gertain Subarachous the Initial Symptom of Gertain Subarachous Gertain Subarachous Elemorages An Basay on Spinal Vieningeal Islamorages and Care could be symptome and the Certains hemotrages sous artchool enous Elemorates hemotrages mean gives spinales) Press and Par 19 8 xxtv 964

In addition to the traumatic or spontaneous cere bromeningeal hamorrhages which are usually fatal hamorrhages of another type have now become well hamorrhages of another type have now become well do not be traveled to the cerebrospinal dud. The latter are spontaneous subarachnoid hamorrhages seldom fatal which occur most fre questly in young persons

The initial symptoms are constant and very triking. In apparently good bealth the patient is taken studenly with pain between the scapular which queckly becomes very severe and to a certain stant tends to radiate to the base of the skull. The patient may beheve he has been stabbed in the back Rigidity of the cervical region quickly follows with slight opinathonous.

The clinical picture is that of acute meningitis the musket hammer attitude positive Lasegue

Brudzinski and Kernig signs exaggeration of the tendon reflexes with symmetrical symptoms of pyramidal irritation painful rigidity of the legs producing sometimes a pseudoparaple, ia and fre mently incontinence of unne and freces

The cerebral symptoms are in the background inconstant and dissociated. The semi conatose state is largely the result of the intense suffering Ocasional symptoms are nausea vomiting, photo phobia sensitiveness of the eyes to pressure alteration of the light reifer prolonged screaming (hydrocephalus type) 1e, the symptoms of increased pressure of the cerebrospinal fluid Localized symptoms are entirely wanting. Toward the second day, lever results from the absorption of

Puncture shows the spinal fluid to be bloody and under tension but in no respect different from the fluid obtained in other types of meningeal harmor

rhage

This syndrome is considered an entity because it cannot be made to fit into any of the standard classifications. There are no signs of cerebral hemorrhage or hematomyelia. It has long been known that hemorrhage alone can cause spatic paraplegia and when it involves the cauda can disturb the sphinciters. The hemorrhage in these cases is purely meningeal and spinal. Another distinctive feature is the absence of an apparent cause. The hemorrhage is not simply a complication of a tumor aneurism or tuberculous or syphilitic infection.

Only seven cases certainly belonging in this category have been reported. In three there were purely spinal symptoms and at autopsy extensive subarachnoid hemorrhages were found. No spinal punctures were performed. In the four others the symptoms allowed the same diagnosis and spinal puncture relieved them by releasing a bloody fluid none to the diagnosis was confirmed after death once there is diagnosis.

On the basis of these few cases the following classification is suggested (1) an extensive form resembling Landry a paralysis (2) a cervical form which is apt to cause death by producing pressure on the vital centers (2) a dorsal form typified by the author's two cases and (4) a lumbar form in which scatic pain and disturbance of the sphincters predominate.

The differential diagnosis from acute meningitis is aided by the absence of evidence of infection and

by the character of the spinal fluid

The ethology is obscure but it appears probable
that a great variety of diseases which predispose to hamorrhage may provoke meningeal ham
orrhage

The treatment consists in spinal puncture repeated as necessary to relieve the pressure. The prognosis is generally favorable although a subpial hamorrhage is capable of producing permanent dis turbance in the spinal centers.

ALBERT I DE GROAT M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Bland Sutton Sir J. Hydrocephalus. A Study in Phylogeny and Pathology. Lancet 1928 ccxv 687

On each side of the cerebellum immediately ad jacent to the flocculus is a tuft of choroid plexus continuous with the choroid plexus covening the roof of the ventricle These tuits extend into each lateral recess where the foraming of Luschka are found The orifice of the lateral recess is in contact with a depression on the inner wall of the petrous portion of the temporal bone which lodges the bulbous end of the endolymphatic duct. The third primary vesicle develops into the fourth ventricle and villi sprout from the velum It is not known just when the lateral angles of the fourth ventricle burst into the subgrachmoid space, but this probably occurs when the chorionic villi become active and the pressure of fluid makes vents through the least resistant parts of the wall. This activity occurs about the fourth month of intra uterine life and if the escane of fluid is hindered the caysties of the brain become dilated an effect parallel with that produced on a kidney by blockage of the ureter The choroid plexus performs a function for the brain similar to that which the renal epithelium performs for the body in general and complete ob struction of the intraventricular communications i as inimical to life as complete obstruction of both ureters

The embryology of the brain indicates clearly that the primary vesicles form a closed sac and that communication with the subarachnoid space is secondary Failure of such communication brings on fetal hydrocephalus similar therefore to fetal hydronephrosis. A study of the skull in the car tilaginous state shows on the inner face of the periotic cartilage an onfice posterior to the internal auditory meatus the aqueductus vestibuli which contains the endolymphatic duct and ends as a bulb under the dura In contact with this bulb hes the lateral recess of the fourth ventricle Such proximity indicates a close relationship between the endolymph and the ventricular fluid In certain cartilaginous fishes the endolymph is separated from the water only by kin and the auditory capsule lodging the bulb of the ductus endolymphaticus is in close re lationship to the onfice of the lateral recess. In a study of embryo dogfish Alexander found that at the spot where the lateral recess comes into contact with the skull capsule the cartilage which elsewhere is thick is reduced to a thin membrane which alone separates the endolymphatic cavity and the fourth ventucie

When the lateral process becomes occided in the human fetus the cerebellum fails to develop side for four for centrace becomes a sax bulgang through the median gap and producing an occipital memories. Many examples of congenital hydrocephilas are due to prenatal bulateral occlusion of the lateral recesses of the fourth ventrace!

recesses of the fourth ventrice
Otologists may attempt to relieve such conditions
by puncturing the endolymphatic sac. Surgeons
may relieve hydrocephalus not by tapping the
lateral ventricles through the vault of the skull, but
by incising the lateral recesses at the base

Gilbert C. Anderson M.D.

Globus J H Communicating Hydrocephalus So Called Idiopathic Hydrocephalus Am J D z Child 1928 xxxv 689

With recognition of the causes of the vanua forms of hydrocephalus to the run shepatich by the control of the property of the control of the

The communicating type of hydrocephalus selffined by Dandy's as form a which all the weinfulare in free communication with the subarithment space around the spinal cord. This form is cutbly the closure of many or all of the subarichowshi hamped to the subarichowship and the subarichowship and recompitits by developmental anomalies in which subarichonoid channels fail to open at creating the thin keeping the main cisterne walled afformation of the main distributing channels or by the subarichowship and the train or or more cuterne at the base of the brain.

The author reports five cases diagnosed clinically as internal hydrocephalus in which at autopsy be injected India ink into the subarachaoid space by cisternal puncture

In two of the sases there was almost complete obtainers too the subaractomol channels patter ularly at their origin from the custerns. Inflamma ton exudative or productive changes neer about and the pia arachonol membrane retained embryon statures indicating that a developmental door space treatment of the failure of the subaracter of the subaracter of the failure of the subaracter of th

meningomyelocele strongly favor this conception Case 3 differed only in that the hydrocephalus was less marked and slower in development. The explanation is that some of the channels opened and allowed a partial distribution of fluid.

In Case 4 there was an acquired form of hydro cephalus due to adhesions formed by a menin gococcus meningitis. Although this case was histologically different from the first three cases the

effect was the same In Case 5 there was a history of trauma without evidence of infectious meningitis. The presence of degenerating blood elements and the patchy dis inbution indicated a sterile reactive leptomening gits a posttraumatic postharmorrhagic organizing

process in the pia arachnoid. As many areas re mained patent, the hydrocephalus was mild. These cases are interpreted as supporting Dandy s

observations on communicating hydrocephalism. Dandy claims that the subarachnoid space with its mesothelial lining is an absorbing surface while according to Weed the fluid filters through the pactitionian bodys. Both Dandy and Weed agree that a patent subarachnoid space is essential for the normal distribution of cerebrospinal fluid and that a reduction in the absorption of cerebrospinal fluid.

causes hydrocephalus

To distinguish between the obstructive and communicating forms of hydrocephalus a neutral so lution of phenoisulphonephilalien is mjected into theventricles. In the obstructive type, the dyes is not recovered in fluid obstaned by spinal junctive and there is almost no exerction of the dye by the kidneys in two hours. In the communicating type the dye is found in the spinal fluid immediately and from a to Fire cent is exercted by the kidneys in two hours.

E S PLATT M D

Michon P The Spinal Dagger Thrust the Initial Symptom of Certain Subaraching in Hamorrhages An Essay on Spinal Meningeal Hamorrhages (Le coup de poignatd rachiden symptome initial de certaines himorragues sous arachoudennes Lasai sur les hémorragues ménan gées spinales) Presse mêl Par 1978 XXVI 064

In addition to the traumatic or spontaneous cere bromeningeal harmorrhages which are usually fatal harmorrhages of another type have now become well known as the result of studies of the cerebrospinal fluid The latter are spontaneous subarachnoid harmorrhages seldom fatal which occur most fregerathings seldom fatal which occur most fregerathings.

quently in young persons

The initial symptoms are constant and very

striking. In applicatily good health, the patient is taken suddenly with pain between the scale like which guidely becomes very severe and to a certain extent tends to radiate to the hase of the skull. The patient may believe he has been stabbed in the back Rigidity of the cervical region quickly follows with slight opisthotoms:

The clinical patients is that of acute meninguis—

the musket hammer attitude positive Lasegue

Brudzinski and Kering signs exaggeration of the tendon reflexes with symmetrical symptoms of pyramidal irritation painful rigidity of the legs producing sometimes a pseudoparaplegia and fre quently incontinence of urine and faces

The cerebral symptoms are in the background inconstant and dissociated. The semi conatons state is largely the result of the intense suffering Occasional symptoms are nausea vomiting photophobus sensitiveness of the eyes to pressure alteration of the light reflex prolonged screaming (hydrocephalus type) 1e the symptoms of increased pressure of the cerebrospinal fluid Localized symptoms are entirely wanting. Toward the second day fever results from the absorption of

I uncture shows the spinal fluid to be bloody and under tension but in no respect different from the fluid obtained in other types of meningeal hamor

This syndrome is considered an entity because it cannot be made to fit into any of the standard chasefications. There are no sayns of exceival themorrhage or humatomy elia. It has long been known that hemorrhage alone can cause spastic paraplegia and when it involves the cauda can disturb the sphincters. The harmorrhage in these cases is jurily meningeal and spinal. Another distinctive feature is the absence of an apparent cause. The harmorrhage is not simply a complication of a tumor aneurism or tuberculous or syphilitic infection.

Only seven cases certainly belonging in this category have been reported. In three there were purely spinal symptoms and at autopay extensive subarachonol hamorrhages were found. No spinal punctures were performed. In the four others the symptoms allowed the same dagnosis and spinal puncture releved them by releasing a bloody fluid in one case the diagnosis was confirmed after death.

from bronchopneumonia

On the basis of these few cases the following classification is suggested (1) an extensive form resembling Landry's paralysis (2) a cervical form which is apt to cause death by producing pressure on the vital centers (3) a dorsal form typified by the author's two cases and (4) a lumbar form in which sciatic pain and disturbance of the sphinicters predominate

The differential diagnosis from acute meningitis is aided by the absence of evidence of infection and

by the character of the spinal fluid

The etiology is obscure but it appears probable that a great variety of diseases which predispose to hamorrhage may provoke meningeal ham orrhage

The treatment consists in spinal puncture repeated as necessary to relieve the pressure. The prognosis is generally favorable although a subpial harmorthage is capable of producing permanent disturbance in the spinal centers.

ALBERT I DE CROST M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Bland Sutton Sir J. Hydrocephalus. A Study in Phylogeny and Pathology. Lanc i 1928 ccxv 687

On each side of the cerebellum immediately ad jacent to the flocculus is a tuft of choroid plexus continuous with the choroid plexus covering the roof of the ventricle These tuits extend into each lateral rucess where the foramina of Luschka are found The orifice of the lateral reces is in contact with a depression on the inner wall of the petrous portion of the temporal bone which lodges the bulbous end of the endolymphatic duct. The third primary vesicle develops into the fourth ventricle and villa sprout from the velum. It is not known just when the lateral angles of the fourth ventrale burst into the subarachnoid space but this probably occurs when the chorionic villi become active and the pressure of fluid makes vents through the least resistant parts of the wall. This activity occurs about the fourth month of intra uterine life and if the escape of fluid is hindered the cavities of the brain become dilated an effect parallel with that produced on a kidney by blockage of the ureter The choroid plexus performs a function for the brain similar to that which the renal enithelium performs for the body in general and complete ob struction of the intraventricular communications is as inimical to life as complete obstruction of both

The embryology of the brain indicates clearly that the primary vesicles form a closed sac and that communi ation with the subarachnoid space is secondary Failure of such communication brings on fetal hydrocephalus similar therefore to fetal hydronephrosis A study of the skull in the car tilaginous state shows on the inner face of the periotic cartilage an orifice posterior to the internal auditory meatus the aqueductus vestibuli which contains the endoly mphatic duct and en is as a bulb under the dura In contact with this bulb hes the lateral recess of the fourth ventricle Such proximity indicates a close relationship between the endolymph and the ventricular fl id. In certain cartilaginous fishes the endolymph is separated from the water only by skin and the auditory capsule lodging the bulb of the ductus endolymphaticus is in close re lationship to the onfice of the lateral recess. In a study of embryo dogfish Alexander found that at the spot where the lateral recess comes into contact with the skull capsule the cartilage which else where is thick, is reduced to a thin membrane which alone separates the endolymphatic cavity and the fourth ventucie

When the lateral process becomes occluded uphuman fetus the cerebellum fails to develop asl the fourth ventricle becomes a sac bulgong through the median gap and producing an occeptial meangacie. Many examples of congenital hydrocephals are due to prenatal bilateral occlusion of the lateral recesses of the fourth ventricle

Otologists may attempt to relieve such conducts by puncturing the endolymphatic sac. Surgeous may relieve hydrocephalus not by tapping the lateral ventricles through the wall of the skull bit by include the lateral recesses at the base.

GILBERT C ANDERSON MD

Globus J H Communicating Hydrocephalus So Called Idiopathic Hydrocephalus im I Dis Child 1928 xxxvi 680

With recognition of the causes of the varies forms of hydrocephalus is there in dispatched reducephalus is being abandoned. One form of ventreutar hypertrophy with status of the ore brospinal fluid is due to an obstruction to the normal outflow from the ventries such as all expendiguities or compenial attents. The production of the control outflow of the compenial attents are compatible there is an excess accumulation of explaints there is an excess the accumulation of the companion o

ment atterior to or obstitution, or obstitution of the companies of fined by Dandy as a form that the ventiles of the companies of the substitution of the substitution of the substitution of the substitution of the companies of

The author reports five cases diagnosed chineally as internal hydrocephalus in which at a topsy he injected India ink into the subarachnoid space by cisternal puncture

In two of the case there was almost complex obligation of the subarachond channels particularly at their origin from the eight changes are also and the pia arachond immediately changes are ab cell and the pia arachond membrane returned eight or features indicating that a developmental distribution features indicating that a developmental originating the composition of the subarachond piace responsible for the failure of the subarach distribution channels. The absence of feater and of a history of infection in these two cases and the presence on the case of another malformation spins bids with

Hatek's collected statistics show 107 cases of cerebral abscess following frontal sinus suppuration Extension of the infection occurs most directly as the result of necrosis and perforation of the posterior plate and next most directly as the result of throm bonblebitis of veins anastomosing with dural veins Osteomy ebtis may al o be a Inctor

Gerber states that the absence of symptoms is the most characteristic feature of this condition. Head ache is the most common symptom but is rarely of localizing value. Comiting may occur early and should arouse suspicion especially if it is unrelated to the taking of food Choked disk is a positive sign but may not be present Eagleton found nerve head changes only 3 times in over 100 cases of frontal lobe abscess. An early diagnosis must be based upon the etiology and signs of increased intra cranial pressure. In some cases pneumoventricu

lography has been of value The results following surgery show a high mor tality Of 108 cases reported by 2 observers 55 were operated upon but recovery resulted in only 20 The author believes that the mortality may be teduced by following the technique of Ling Elsberg

GLEERT C ANDERSON M D Frazier C H Operation for the Radical Cure of

Trigeminal Neuralgia in Surg 10 8 lxxxviii Frazier reviews over 1 200 cases of trigeminal

neuralgia 511 of which were treated surgically He states that in his opinion the fifth nerve is chiefly responsible for the sensations of pain touch

and temperature in the face and for taste on the antenor two-thirds of the tongue

or Cabill

He describes his operative procedure for trigemi nal neuralgia and gives suggestions for obviating some of the common difficulties The advantages of conserving a portion of the sensory root are enumerated and the postoperative management is described TRIC OLDBERG M D

SPINAL CORD AND ITS COVERINGS

Jaroschy W Late Injuries of the Spinal Cord-Compression Myelitis-with Severe Scolioses (Leber Spaetschaelgungen des Pueckenmarks-Kompressionsmychiti - tei schweren Skoliose 1 Bit z kli Chir 1928 cxhi 507

To two cases of congenital scoliosis that he re ported previously the author adds three new cases of his own and two cases observed by Elmslie. The last five cases showed a very characteristic disease picture Without any external cause or any increase in the curvature there suddenly appeared in the scoloses that had been present since childhood the so a transverse lesion which led in a short time to severe spastic paraplegia of the legs ensory disturbances and occasionally slight bladder and rectal disturbances

'eurologically this disease picture i differen tiated from that of other cord lesions by the fact

that the mury affects the entire transverse section uniformly without the complete loss of individual functions for a long time. In pronounced cases my elography shows a total permanent obstruction at the site of the lesion which usually lies at the level of the fourth to the seventh thoracic vertebræ In the effort of the dural sac and the spinal cord to adapt themselves to the curvature they are stretched over the angulation of the spinal canal and move against the concavity of the curvature being thereby pushed into that part of the spinal canal which as the result of the typical dislocation and deformity of the vertebral foramen in the dome of the curvature shows a distinct constriction in the samital diameter although it is not necessarily made smaller as a whole Consequently the nerve ele ments are affected more by a circulatory disturb ance of the thin walled veins and lymph vessels than by direct pressure. A venous stasis is produced in the spinal cord long before the nerve elements are

injured the investigations of Stewart Times and Riddoch have shown that the meningeal yours and the small intramedullary years at the level of the compression and farther away are often greatly dilated and their walls thickened and that there is an ordema in the vicinity of the blood vessels below the site of compression and obliteration of the lymph space. Only after this process has been present for a long time do the nerve elements undergo degeneration. There then results obliteration of the arteries with local necrosis of the nerve elements Many factors suggest that increased growth or disparity between the growth of the vertebral column and the growth of the spinal cord is responsible for the injury. In the five cases reviewed by the author this was indicated by the fact that the transverse lesson did not appear until the second half of the second decade of life although the scoliosis had been present since childbood

The treatment of choice in these cases is lamined tomy adequate enough to reveal the mechanical factors involving the cord In the cases reviewed by laroschy there was no circumscribed pressure effect upon the spinal cord and when the dura was opened the cord prolapsed. However, the dura should be sutured only when suture is possible without tension Of the cases described four were operated upon with a complete cure in three and considerable improvement in one. In the case treated conserva tively only slight improvement resulted

STECEMANN (7)

Petit Dutaillis D A Contribution on the Surgery of Spinal Cord Tumors Technique and Results in Twenty Personal Cases (Contribution & la chirurme des tumeurs intra rachidiennes technique et résultats d'apr s 20 cas personnel) J de chir 1923 XXVII 129

The treatment for spinal cord tumors is surgical treatment. The majority of spinal cord tumors are benign enucleable and radio resistant

Surgent Sir P On the Removal of Cerebral Furnors best J Sure to 28 xvi 103

The author describes brefly his technique for untravarial exploration and his method of removing the two types of fumor—endothelions and circumstrohid globa—which he believe a crab be extrasted. His methods do not duffer from those in general Lewise contravarial procedures have not supplemented purely surgical methods. Sargent apparently prefers lovel teasures to random lobectomes: For prefers lovel teasures to random lobectomes: For the contravariation of the proposal properties and the properties and the responsal properties for the contravariation of the properties of the proper

Laschi G The Inclination of the Quadrilateral Plate in the Normal and Pathological Selfa Turcica (Linchiantone della lamma quadrilateral n lla selfa turcca normale e patologica) Rad el med 1018 xx 185

The author shows the importance of the quadrilateral plate in the morphology of the sella turcica its variations under pathological conditions and the great value of its position in diagnosis

He studied the inclination of the quadrilateral plate by making calculations on many roentgeno grams of pormal and pathological skills and deter mined the value of the angles between the perpen diculars tangent to the chyuis the sphenoidal plane and the plate it elf

One of these angles is the basilar angle or angle of Landsett which is generally known to rocatgen ologosts and is used by many of them in judging the inclination of the quadrilateral plate. This angle is of vilue bowker only in the very rare cases in which the plate and the clivus he in the same plane (6 per cent of the authors cases).

The angle which shows the constant and certain index of the inclination of the plate: that between the plate and the sphenoidal plane. This fact is confirmed by a study of the angles in pathological

In cases of tumor within the sells for example the bisilar angle varies only within the limits of the normal while the angle between the quadrilateral plate and the sphenoidal plane falls below normal mammal values

The angl between the plate and the clivus is not of any special value as it may vary p rely on account of different positions of the clivus

Landzert's argle is of value in ca es of acromegal; in which it is larger than normal.

AUDREY G MORGAN M D

Balado M and Franke E Anatomicosurgical Considerations Based on Siz Cases of Abscess of the Gerebrum (Consideration et anatomoquiurgicas sobre se casos de absceso del cerebroterlo artent de ne no 1 3028 ii 75.

In three of the authors sur cases of abscers of the brain the lesion was of traumatic origin and in two of otic origin. In one it was a metastas of The causes of death in the five fatal cases were meningitis

in three cases cachetta in one case and aut

The nathologica anatomical nicture depends somewhat on the stage of evolution of the condition When the walls of the abscess are well established seven separate lavers may be distinguished with the microscope From within outward there is fir the abreess content consisting mos ly of polynuless leucocytes lymphocytes and fat cells all more or less fragmented The second layer is made up mostly of loose cornects e tasue cells of recent forms wa which contain globules of fat. The third later is made up largely of adult connective to sue New capillaries may be seen in this layer. The fourth layer is distinguished from the third by the pres ence of infiltrative elements plasma cells and large and small lymphocytes are distributed throughout the connective tissue elements. The fifth lasts is characterized by a greater number and more orderly arrangement of infiltrative cells. The inth zone shows destruction of pervous tissue and scant tissue reaction. The seventh layer is characterized by the destruction of ners ous tassue with absence of

inflammatory elements
Evacuation of the absects is not sufficient to love
the intracranul tension. The hypertension is denot only to the size of the abscess but also to the
codem of the surrounding layers. The tentinet
should include ample resection of the ab ress valis
to healthy nervous tissue. Simple drainage subsolitreatment of the cerebral po_come membral
leaves the most active part of the process undouche!

Within Research.

Sprowl F G Rhinogenic Frontal Lobe Abscess
Report of Two Cases fnn Olof Rhin i Lar

yingol 1928 EERCH 922

Frontal lobe abscess compleating suppuration of the nasal accessory sinuses is infrequent at 15 cm dent from the fact that fewer than 150 ca.es have been reported \text{\text{Nevertheless}} it is the wost common infrarramal complication of such suppuration

The author a first, sale was that of a man of fortycars Several months after a pursuent used of charge the patient developed headacher romain without naus and vertigo with impairment of vision Examination showed bilateral choked with hemorrhages Operation dischored pix in the frontal sinus perforation of the posterior plate and a sinus trac leading into a large absersa cavit

Draining, by tube was followed by zero or, The second case was that of a child of four enyears who was operated upon for orbital ce labor, counting. Upon examination a learner was to counting. Upon examination a learner was found Re-operation and exploration with a brain sustified failed to disclose pus. At a subsequent enhance however an abscess cavit was found. The unroofed according to the technique of Rain. There followed by recover, all on was repeated and was followed by recover, Twelve intradural extramedullary tumors were operated upon with one immediate death. Two patients died three and four months after the operation respectively. The operative death was caused by a difficult to explain intracranial tension which forced the tonsilar lobes of the cerebellium into the foramen magnum. Of the late deaths one was due to a permanent praraplear and the other to a unmary infection and a decibilities ulcer. There were considered and five almost complete and five almost complete was in direct relation to the promptiness of the operation and vaned from fifteen days to three vears.

In four cases of intramedullary tumors there was one operative fatality. The patient died after the first stage of a two stage operation. This was the oily case in which removal of the tumor seemlessible. Two patients eventually succumbed from extension of the lesson. One has survived for two years under radiotherapy, and its believed to be cured.

ALBERT F DE GROAT M D

Rieder Anterior Root Sensibility (Zur Frage der Vorderwurzel ensibilitaet) Ze itralbl f Chir 1928 ly 814

The question as to whether the anterior roots contain sensory fibers was investigated in experiments on sixty eight dogs. The posterior roots were divided and the animals then kept under observation for nine months. In forty five of the dogs a superficial and deep sensibility were demonstrated. In

the remaining twenty three errors in the operation were discovered at autopsy After division of all the posterior roots from the

tenth dorsal downward there was complete absence

of sensibility in the lower extremutes. The abdominal sympathetic of the dog and the terricalsy mpathetic of man show no pain conduction on electrical simulation in the absence of con acting loops. After division of the lower posterior created and all posterior dorsal lumbar and sacral creates and all posterior dorsal lumbar and sacral creates and shows no pain reaction to irritation of the spannish or objective signs denoting pain the pain reaction was determined by kymographic registration of the blood pressure.

In the discussion of this report Lehinant on mode with that dissimily animals were used for the experiments and that in the investigation of various factors such as the sensibility of the extremities the technique of the operation differed. He cited the fact that Poerate demonstrated adull pain sensa two after extensive resection of the posterior roots all that rescention of the corresponding anterior roots resulted in the loss of all pain sensation. The stateme of a sensory conduction in the anterior toots is further proved by the observation that even disk disk manual than the country of the control of the contr

of a divided anterior root is sensitive to pain
In his concluding remarks. Ripper referred to the
case with which errors may occur in division of the
posterior roots and emphasized that proof of a

sensory conduction in the anterior roots can be established only by careful clinical observation con firmed by autopsy

FISCHER (Z)

PERIPHERAL NERVES

Forbes A. A Note Concerning the Effect on Their Function of Stretching Nerve Trunks Aca England J. Med. 1928 cvciv. \$53

Nerse trunks of frogs usually continue to exhibit their function after being subjected to considerable surgical trauma in dissection and removal but in the case of the scatic nerve of the cat the author noted that action current failed to appear after ordinarily careful dissection with protection from drying and other mixty.

To determine whether the failure of function was caused by tension during dissection scratic nerves were removed very carefully from decerebrated cats with the use of very sharp instruments and arranged so that tension could be applied to them and measured. A tension of 8 gm caused impairment of function and a tension of 100 gm spiled for one second practically, abolished action cutred.

In similar experiments on frogs it was found that a tension of 200 gm applied to the scattic nerve produced no appreciable decrease in action current. The frog is therefore able to withstand about ten

times as much trauma as the cat

If the difference in size between the sciatic nerve of man and the cat is taken into consideration it can be readily understood how the use of a tension of from 30 to 40 kgm in the treatment of sciatic v produces a blocking of the sensor immules.

In anastomossing peripheral nerves the surgeon is often compelled to apily tension and apparently it does not materially retard regeneration but the results of the authors experiments indicate that because of the susceptibility of mammalian nerves to tension even moderate stretching should be avoided if possible "Gitarst C Nurseo M D

Schnek F A Complete Subcutaneous Tear of the Cervical Plexus (Subcutane vollstaendi e Zer rei sung des Plexus cervicalis) M natszele f Unfalli ilk u Versieler 155m d 1028 xxxv

The patient whose case is reported has a man who had been hit and knocked to the ground by a heavy transmission belt which struck him on the right shoulder and right side of the head. The input was followed by repeated attacks of vomiting. Learn matton revealed a contusion wound in the right inner car a subconjunctival harmstom of the right inner are as underjunctival harmstom of the right inner are as underjunctival harmstom of the right eye car a subconjunctival harmstom of the right eye muscles of the strength facults. The tomus of the muscles of the strength are which when little fell back limp. There were no extravasations of blood or skin abrasions in the region of the right shoulder joint.

On the following day the right arm was greatly swollen as far as the shoulder and slightly cyanotic and exhibited complete flaceid paralysis. The

The aid of the neurologist is necessary to estab lish the diagnosis and to determine the level of the When this has been accomplished more exact localization by the injection of lipiodol is of great value usually enabling the surgeon to proceed directly to the site of the lesion In the rare cases in which the lipiodol and the neurological signs dis agree the surgeon should rely upon the latter

The contra indications to operative treatment are few According to Elsberg operation is futile when the condition has been present for longer than three years In the author's opinion it is contra indicated only if the paraplegia has been present that long The character of the paraplegia must also be con sidered When the lesion does not involve the cauda a flaccid paralysis indicates irreparable destruction of the cord An eschar is of no importance if it does not involve the site of the pro

Before operation any urinary infection or chronic nephritis should be dealt with as well as possible In the author's cases the operation is performed under ether anæsthesia induced by inhalation or rectal injection Rectal injection is used only when the operation is to be performed in the cervical or

upper dorsal regions Ether is well supported even when the operation is prolonged to three and a half hours Local anæsthesia is unsuitable because the duration of the operation can never be foretold

The patient is placed in the position of ventral decubitus Lowering the head increases rather than decreases the loss of cerebrospinal fluid By means of a sand bag the dorsal curve of the vertebral column is increased or diminished depending upon whether the tumor is dorsal or ventral to the cord

In all except two of the cases reviewed hiprodol injection showed the exact location of the tumor The author tattoos a line in the skin exactly over the lower limit of the shadow since when this is done the field of the operation can be greatly restricted. An incision including three spinous processes is usually sufficiently long

The laminectomy is carried out according to the technique of Lecène In order to avoid devitalizing fragments of muscle which may later give rise to hæmatomata the muscles are separated from the

spinous processes by sharp dissection When the epidural fat is reached the field is most carefully inspected Inconspicuous extradural tumors will sometimes be revealed especially if they are lateral and anterior An intradural tumor causing obstruction reveal itself by a fusiform swelling with pulsation of the dural sac cephalad to the obstruction

The incision of the membranes may be limited to the dura alone or include the arachnoid. In the latter case the dura is punctured and five minutes are allowed for the escape of the excess fluid In this way a massive escape the cause of many deaths is prevented. When the arachnoid is preserved a tumor may sometimes be removed with the loss of only a few drops of fluid

In the removal of the neoplasm the vascular pedicles are ligated with fine silk and sectioned and the tumor is then separated from the cord with a blunt spatula This step is hindered by the continual accumulation in the wound of blood and cerebrospinal fluid. The field is best kept dry by aspiration

When the tumor is ventral the cord may bulge into the wound It must not be mistaken for the tumor The tumor is rarely median hence to such cases the cord is usually rotated. The dorsal roots on the sile of the tumor are plainly visible while those on the opposite side are hidden The tumor may often be seen between the roots Its removal involves section of the dentate ligament and usually of one or two dorsal roots When the tumor is extradural the mode of approach is the same but the neoplasm is expe el by incising the dura

During the operation the blood pressure a determined by a I achon apparatus If the pressure falls below 100 mm the operation is stopped and

adrenalin is injected until it rises

When the tumor is firmly fixed to the dura and it removal must include the dura the defect may be sati factorily repaired with a graft taken from the lumbodorsal aponeurosis Tumors of the cauda which are often large may be intimately attached to several roots their removal being therefore ex cessively difficult and dangerous Elsberg advises a two-stage operation first mobilization of the tumor outside the dura and second removal of the tumor which a few days later will have free i itself from the adhesions with the roots. In a case of large soft vascular fibroglioma which could not be re moved the author obtained a five year cure by ra diotherapy

Intramedullary tumors are usually diffuse glomata which extend longitudinally a considerable distance For these radiotherapy is the only means of treatment but is a feeble one. In cases of localized tumor the two stage operation is best. At the first operation the cord is incised medially over the tumor At the second operation the tumor is found

to have enucleated itself

If hæmatomata are not formed the postoperative course is usually smooth Occasionally there is a high oscillating fever but this is evidently of persons origin To prevent eschars the patient should be placed on an air mattress and his position changed every two hours day and night. The immediate operative course is most favorably influenced by injections of saline solution and adrenalin author gives from ', to /2 mgm of adrenalin every two hours for the first twenty four hours and every

four hours for the second twenty four hours In the author's cases a cure was obtained in 60 ner cent The total mortality was 40 per cent

Two of the deaths were immediate and six were late In the four case of extradural tumor there was no operative mortality Two of the patients died later as the growths were malignant but the disea e was arrested for one and three years respectively by radiotherapy

Twelve intradural extramedullary tumors were operated upon with one immediate death patients died three and four months after the operation respectively. The operative death was caused by a difficult to explain intracranial tension which forced the tonsillar lobes of the cerebellum into the foramen magnum. Of the late deaths one was due to a permanent paraplegia and the other to a urnary infection and a decubitus ulcer There were four complete and five almost complete cures. The time remired for recovery of function was in direct relation to the promptness of the operation and varied from fifteen days to three years

In four ca es of intramedullary tumors there was one operative fatality. The patient died after the first stage of a two stage operation. This was the only case in which removal of the tumor seemed possible Two patients eventually succumbed from extension of the lesion. One has survived for two years under radiotherapy and is believed to be cured

ALBERT T DE GROAT M D

Rieder Anterior Root Sensibility (Zur Frage der Vorderwurzel en ibilitaet) Zentralbl f Chir 1928 iv 814

The question as to whether the anterior roots contain sensory fibers was investigated in experi ments on sixty-eight dogs. The posterior roots were divided and the animals then kept under observation for nine months In forty five of the dogs a super ficial and deep sensibility were demonstrated the remaining twenty three errors in the operation

were discovered at autopsy After division of all the posterior roots from the tenth dorsal downward there was complete absence

of sensibility in the lower extremities The abdominal sympathetic of the dog and the cervical sympathetic of man show no pain conduction on electrical stimulation in the absence of con necting loops After division of the lower posterior cervical and all posterior dorsal lumbar and sacral toots the animal shows no pain reaction to irritation of the splanchme In addition to careful observation of the animals for objective signs denoting pain the pain reaction was determined by kymographic reg istration of the blood press re

In the discussion of this report LEHMANN pointed out that dissimilar animals were used for the experi ments and that in the investigation of various factors such as the sensibility of the extremities the technique of the operation differed. He cited the fact that Foerster demonstrated a dull pain sensa tion after extensive resection of the posterior roots and that resection of the corresponding anterior t was resulted in the foss of all pain sensation. The custence of a sensory conduction in the anterior toots is further proved by the observation that even after division of the posterior roots the central stump of a dinied anterior root is sensitive to pain

In his concluding remarks RIEDER referred to the ease with which errors may occur in division of the posterior roots and emphasized that proof of a

sensory conduction in the anterior roots can be established only by careful clinical observation con FISCHER (Z) firmed by autopsy

PERIPHERAL NERVES

Forbes A A Note Concerning the Effect on Their Function of Stretching Nerve Trunks Ingland J Med 1028 CXCIX 555

Nerve trunks of frogs usually continue to exhibit their function after being subjected to considerable surgical trauma in dissection and removal but in the case of the sciatic nerve of the cat the author noted that action current failed to appear after ordinarily careful dissection with protection from drying and other injury

To determine whether the failure of function was caused by tension during dissection, sciatic nerves were removed very carefully from decerebrated cats with the use of very sharp instruments and arranged so that tension could be applied to them and meas ured A tension of 25 gm caused impairment of function and a tension of 100 gm applied for one second practically abolished action current

In similar experiments on frogs it was found that a tension of 200 gm applied to the sciatic nerve produced no appreciable decrease in action current The from is therefore able to withstand about ten times as much trauma as the cat

If the difference in size between the scritic nerve of man and the cat is taken into consideration it can be readily understood how the use of a tension of from 30 to 40 kgm in the treatment of scintical produces a blocking of the sensory impulses

In anastomosing peripheral nerves the surgion is often compelled to apply tension and apparently it does not materially retard regeneration but the results of the author's experiments indicate that because of the susceptibility of mammalian nerves to ten ion even moderate stretching should be GILBERT C ANDER ON M D avoided if possible

Schnek F A Complete Subcutaneous Tear of the Cervical Piexus (Subcutane vollstaendige Zer rei sung des Pleyus cervicalis) Monatsscir f Lifaliheilk u Versicherungsned 1928 xxx

The patient whose case is reported was a man who had been hit and knocked to the ground by a heavy transmission belt which struck him on the right shoulder and right side of the head. The injury was followed by repeated attacks of vomiting Exam ination revealed a contusion wound in the right temporal region hamorrhage from the right inner ear a subconjunctival hæmatema of the right eye and paralysis of the right facialis. The tonus of the muscles of the extremities was normal except in the right arm which when lifted fell back limp. There were no extravasations of blood or skin abrasions in the region of the right shoulder joint

On the following day the right arm was greatly swollen as far as the shoulder and slightly cyanotic and exhibited complete flaccid paralysis

temperature of the skin of the arm was increased and the radial pulse was absent. Later the pul e could not be felt over the radial brachial or sub clayan artery.

At operation the subclevian arters showed no pulsation. The roots of the fourth fifth and seventh nerves were found torn out of the vertebre. A piece of the sixth enerve 2 cm long remained. The clavicle was temporarily reflected. At the site of the clevia, there was a hard structure 8 cm long needs to the cleviant there was a hard structure. See million of the cleviant there was a hard structure 8 cm long piech thrombosed. It was found impossible to join the ends of the nerves by sture.

I atter there was a return of skin seasibility from the shoulder to the ellow but the entire are manued atrophic and without the capitary for activation of the control of

SYMPATHETIC NERVES

Crile G W Clinical Studies of Adrenalictomy and Sympathectomy Ann Su g 1918 Iverval 4 0

Twenty nine cases including thirteen of epilepsi four of neurasthema three of endarterits obliterans five of hypertension and four of hyperthyroidism with hypertension were treated by adranalectomy alone by adrenalectomy with thyroidectomy and sympathectomy or by sympathectomy alone

In endartenits obliterans and hypertension the results were needigable and in neurosthema they were inconcia ise. In epileps, the results of adren alectorm, with throudestorm and sympathectorms were encouraging. The end results of the treatment of hyperity nodism by adernalectorm, cannot vet be reported but the early results show marked improvement.

LEO VI DAUGOFT M.D.

Palma R An Anatomicohistological Study of the Effects of Removal of the Perineurial Sympa thetic (Sturio anatomo istologica sull a portazione del simpatico perinervoso) An fall d h 9 8 30 775

I he mixed nerves contain a simpathetic fibers most of which run in the penseurum. They pass out from the nerve trunks and enter the adventitus of the essels of the region. Some of them are centripetal and transmit the sensation from the arteres to the cent is and some of them are centrifugal. Until a few years agont a conditional could be curred by pernattered to the conditional could be curred to the conditional could be conditional could be conditional could be conditional to the conditional could be conditional conditional could be conditional could be conditional could be conditional could be conditional conditional could be conditional conditional could be conditional conditional could be conditional conditional conditional conditional conditional conditional cond

cases operation on the permeutal sympath tic has been carried out successfully but so far as the author is aware no histological study has been made of the effects of removal of the permeural sheath

Palma performed permental sympathetics; on the scattle nerve of dogs and studied its effection blood supply of the nerves and on the nerve then selves. It is amounts lunged for 6 sed val, set is operation but therefire welled normally. The nerve trunks were increased in sus by octanion tissue which replaced the extrapted sheath and tormed adhesions with the nerve and with their rounding tissues. A dense nershy formed concentration was the contract of the nerve and virtue of the contract of the server of the nerve sheath. The circulation of the nerve suffered severes from the operation the vessels were disting but empting the server will red severes from the operation.

the superficial anastomoses that developed were not after it to apply the nerve adequased. Unargo cocurred in the nerve fibers beginning within a few and a safer the operation and steep reposured must be not considered in the new collection. The superficient is not considered in the new collection. Within from their to forty days after the operation specimens inferent anti-substantial substantial and the substantial control of the substantial contro

MISCELLANEOUS

Van Bogaert L and Verbrugge J The Pathogenesis and the Surgical Treatment of Ga tric Urisis of Fabes Neuroramisectomy S rt Gync. & Ob J. o. 8 Nov. 543

According to the authors theory of the mechani m of visceral pain a peripheral stimulus reactes the Lord and puts it into a state of activity which provokes evaggerated motor reactions in the organ concerned leading to hyperfunction with rapid es haustion of the organ Soon the mu cles of the org the cease to be excitable the vi cus becomes di tended and the distention contributes an obstacl to the passage of the impulses. The blockage of the impul es overloads the afferent sympathetic system and results in stimulation of the corre ponding final segment which is manif sted by contracture and pain in the respective metameres. Pain ongu at ? in the parietal peritoneum is tran mitted by th intercost il and phrenic nerves whereas that one at ing in the visceral peritoneum i transmi ted by the splanchnics Operations for the relief of such pain have been performed from the peripheral neuron up to the central nervous system

In tabes the thoracovisceral pains of three types (1) pain with metameric topography as represe (de by the well-known gridle pains (2) sympithetic pain in sheets—pain in areas of variable extent without radicular or neuritic distribution—which is continuous and superficial undergoes exacerbations

causing sensations of contusion constriction or crushing and resists most analgesic measures (3) deep gastine pain with sensory motor reactions such as nausea vomiting and gastric hyperkinesia Vausea and vomiting are predominant symptoms and may occur separately or together or with in

tense head pains

The gastic cruss of tabes is an irritative syndrome of the afferent gastic pathways. Therefore the two great vegetative arcs the sympathetic and the vaga must be considered in dealing with the dis order. There are two main types of cruses the sympathetic and the vagal. The former occur with sympathetic and the vagal. The former occur with a contract of the contrac

paroxy sms of scalorrhora and gastrorrhora

The veretative equilibrium of an individual at a given time is an expression of the integrative action of the sympathetic and the parasympathetic nervous systems The pathological vegetative phenomena result from a series of disturbing factors including (1) modification of the normal amphotrophism of the subject (2) a local lesion of the organs (3) a lesion of the extravisceral or other efferent nervous paths capable of influencing the vegetative functions and (4) the functional state of the afferent routes It is important to determine whether there is a particular mechanism and therefore a particular form of treat ment for each variety. In four cases (three amphotonic and one vagotonic) which were carefully stud sed for more than three years detailed observations fuled to indicate whether intervention should be in the sympathetic or the vagal system Pharmacody namic tests were no more final Foerster has in sisted upon such a differentiation and would use the radiculospinal type of operation for the splanchine cri es and section of the sensory root of the vagus for the vagal crises. He has suggested also the import ance of the phrenic nerve in certain gastric syn dromes of tabes which are characterized by pain in

the shoulder hyperalgia of the neck and hiccough without nausea or vomiting

The authors are opposed to a too strict separation of types sympathetic vagal and phrenic as in most cases there are symptoms of all three types vegeta tive studies cause confusion and pharmacodynamic tests do not solve the problem The gastric crises of tabes are essentially a syndrome of irritation of the afferent pathways of the stomach at the level of the spinal roots or the root of the vagus and it is certain that the majority of the connectors of the gastric sensibility pass through the solar plexus the splanch nicus major the ganglionic and vertebral chain and the white rams and reach the cord through the dorsal roots from the sixth to the tenth or even the twelfth Posterior radicotomy has not been uni formly successful and for some years Foerster has resected the anterior roots as well. The role of the anterior roots in the conduction of sensibility has been sustained by other authorities. Lehman be heves that the anterior root alone conducts deep and visceral sensibility but recent research leads him to conclude that the law of Bell holds true in man and all experimental work tends to prove that the sensi bility goes exclusively through the posterior roots After examining patients subjected to section of both posterior and anterior roots as well as the spino thalamic tracts Toerster concluded that there must be extraradicular routes by which pain can reach the central nervous system and that one of these may be the sympathetic and the rami communi cantes

The authors have tried to abolish pain by section ing both anterior and posterior roots estrayerte bralls by section of the intercostal perves and combining this with resection of the corresponding rams communicantes. The technique of the operation is described and case histories are cited which seem to prove their conclusions to be correct at least far as these particular cases were concerned.

GILBERT C ANDERSON M D

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Lockwood C D Malignant Tumors of the Wall of the Chest Arch Surg 1928 XVII 459

Lockwood reports a case of chondrosarcoma and a case of sarcoma of the chest wall the former treated by operation and radium irradiation and the latter by operation with both \ ray and radium

He states that the majority of tumors of the chest wall are malignant. The most common types are the sarcoma and the chondrosarcoma tumors usually recur after removal The best treat ment is thorough removal followed by radium or RALPH B BETTHAN M D

Cheatle G L Chronic Mastitis noma and Adenoma of the Breast Cysto 1de Surg 1928 XVII 535

Cheatle states that the morphological appear ances of chronic mastitis are identical with those of the physiologically active state of the breast at birth at puberty and in certain phases of lactation This active state becomes pathological when it is present between the thirtieth and forty fifth years of age and develops an excess of desquamative epi thelial hyperplasia which induces pain by distention It possesses the same hability as the breast at pu berty to form fibro adenomata which may or may not develop acini within their formations of tumor The author has substituted for the term chronic mastitis the term desquamative epithelial hyper plasia Type A

He believes that the term cysto adenoma is a misnomer that the growths to which it is applied do not become cystic and that they cause only a dilatation of pre existing ducts and acini He be lieves that there are usually a series of separate tumors-papillomata and sessile epithelial growths in pre existing acini and ducts. The condition is usually more diffuse than it is generally supposed to be It is also as dangerous as the multiple adenomatous papillomata of the colon

Pure adenoma of the breast is rare and is a benign tumor It differs from cysto adenoma in presenting a massive new formation of pathological adenomat HARRY W FINA, M D

Hayward The Bleeding Breast Especially in the Male (Ueber blutende Mamma insbesondere beim Mann) Zentralbl f Ch 1928 ly 1053

The question of the danger of the bleeding breast is still unsettled Whereas Haas Gebele and others consider this condition harmless. Klo e believes it to be very serious as he sees in it a precancerous stage demanding amputation of the breast with ex

tirpation of the axillary lymph nodes Because of this difference of opinion surgery must assume a standpoint which will give the practitioner who sees these cases first something to guide him in his

The author reports a case of bloods secretion from the nupple in a man a very rare occurrence since up to the present time only 4 cases have been reported whereas about 100 cases of bloody secretion from the female breast are on record. The patient aged fifty eight years came to the hospital for treatment for hypertrophy of the prostate. The secretion of blood from the nipple was only a coincidentil finding The left nipple appeared somewhat pushed to the side by a mass the size of a plum which was somewhat tender A chocolate colored fluid escaped from this mass on pressure and also spontaneously An oval incision was made and the breast glands were removed with the tumor Microscopic ex amination showed the neoplasm to be a papillar,

After reviewing the literature the author comes to the conclusion that the disease described as bleeding breast does not represent a disesse entity and that in every case a thorough microscopic examination should be made if pos ible before

In the discussion of this paper Wendel reported 4 cases of bleeding breast in females He did not extirpate the breast in any case and in no instance did he observe the development of a carcinoma The condition was interstitual mastitis in which the bleeding is occasionally periodical and apparently dependent upon menstruation In 2 cases there were also small papillary tumors in the excretory ducts Wendel did only a partial extirpation up to half of the breast gland He emphasized that his findings vary considerably from the results reported in the English and American literature

STIED 4 stated that he considers the bleeding breast a precarcinomatous disease requiring extirpation of the entire breast In young women the portions of the gland remaining after partial extirpation of the breast cause trouble which is another reason for

complete extripation

WREDE discussed cases of bleeding breast in which no tumor is palpable In such cases there are tiny papillomata in the excretory ducts. In a case of this type which Wrede has had under observation for six and one half years there has been no change and no tumor has formed Wrede therefore believes that the unconditional demand for immediate sacrifice of the breast is too radical. He recommends extirpation of the glandular tissue but if maig nancy is not demonstrable he prefers to preserve the skin and to transplant fat under it so that the

cosmetic effect will be preserved He presented a patient who was operated upon in this way one and one half years ago ROSENBURG (Z)

Buchholz The Treatment of Carcinoma of the Breast (Die Behandlung des Mammacarcinoms) Zentralbl f Chir 1928 ly 1949

The author reports upon his experiences with 384 cases of carcinoma of the breast which were treated in the period between January 1 1906 and March 31 1924 in the Alstadt Hospital in Magdeburg Twenty six were in the first stage 8 in the second stage 206 in the third stage and 80 in the fourth stage (Tuebingen classification) Twenty six pa tients of whom 3 were in the fourth stage and 3 in the third stage were not operated upon and died within three years. Within the period of observation under consideration there were 218 deaths-13 from the direct and indirect effects of the operation 21 from intercurrent diseases 6 from unknown causes and 178 from recurrences or metastases of the carcinoms (among the poor repults are included the cases of 62 patients who could not be traced)

Three types of roentgen irradiation were carried

out
Penod 1 January 1 1906 to July 1 1911
multiple field irradiation with a 3 mm aluminum
filter and frequent small doses repeated at short
intervals

I eriod 2 July 1 1911 to October 1 1919 irradia tion with the use of a 5 mm aluminum filter and an increase in the intervals and dosage

Period 3 October 1 1919 to March 31 19 4 tradiation through 3 large fields (Wintz) with repetition of the irradiation after from three to six months

Radium was always used in addition to roentgen irradiation

In 111 cases only surgical treatment was given but in 137 cases operation was followed by irradia ton Of the pritients in these 2 groups (those with operation only and those with secondary irradia ton) 20 (14 per cent) of the first group and 138 sep recent) of the second group were alive after the 13 (14 per cent) of the first group and 14 (15 per cent) of the second group were alive after two pears of the second group were alive after two pears of the second group were alive and 71 (13) 6 per cent, of the second group were alive after two pears pears and it (17 8 per cent) of the first group and 34 (14 per cent) of the second group were given after the pears and it (17 8 per cent) of the first group and 34 (14 per cent) of the second group were given after tren pears

Of the patients subjected to combined treatment in the first period 43.8 per cent showed no resurrence-safter three years and 33 per cent showed no resurrence-safter three years and 33 per cent showed no resurrence-safter five years of those so treated the second period 50 per cent showed no recurrence fare free years of those so treated in the third period 52 years Of those so treated in the third period 52 years Of those so treated in the third period 52 years of the year for the

than those in the second period. The author there fore concludes that prophylactic roentgen treatment after operation gives good results when the method used in the second period is employed. He is as yet unable to report upon the results of the more recent irradiation procedures advocated by Meyer and by Holleider.

In the discussion Wender stated that he reported good results from secondary irradiation therapy in

Lorsch discussed the relationship of the histo logical structure of the carcinoma to the danger of metastasis and summarized his conclusions in the following sentence. We cannot say at the present time that the surgeon is duty bound to recommend roentgen irradiation after every extirpation of the breest for earnoma.

PLUECKER said that since it has been shown in this report that the results with roentgen uradiation are better than those without irradiation patients who have been operated upon in smaller hospitals which are not equipped with modern appractus should be referred to a specialist in roentgenology for after

treatment
KEMF reported that he has seen very many
severe roenigen burns in the smaller hospitals in and
near Braunschweig and that postoperative roent
gen treatment should be given only by thoroughly
experienced roentgenologists

Lorsch stated that he had ordered a roentgen apparatus for diagnosis but he has refused to allow the installation of an apparatus for therapy unless a fully experienced roentgenologist is employed—a

demand which a small hospital cannot meet
WEDEL repudiated the claim of Weinert made
at the Surgical Congress of 1926 that metastases
are already present even in early cases since it has
been proved that Weinert's cases were not in the

early stages

TRACHEA LUNGS AND PLEURA

ROSENBURG (Z)

Hill L The Ciliary Movement of the Truchea Studied in 1 itro Lancet 1928 ccxv 802

Hill studied the ciliary movement of the traches in the horse sheep rabbit hen and frog under various conditions. The rate of transit of a foreign body (fine suspension of lampblack) was nearly the same in all-about 1 cm in from twenty to thirty seconds Changing the position of the trachea from the horizontal to the vertical decreased the rate one half The rate was increased all o by stretching of the tracheal mucous membrane Trauma caused arrest of the suspension at the point of injury When a small area of mucous membrane was sepa rated from the submucosa and replaced the rate of movement continued to be the same in this as in other parts of the membrane There was an in crease in the rate with an increase in temperature In the case of the horse trachea the optimum tem perature was 42 degrees C and in the case of the hen trachea 44 degrees C Small doses of ultra

volet tas did not accelerate the ciliary movement whereas larger doses slowed or stopped the cilia. The rate of ciliary movement was not affected by a deficiency of Vitanins A and D in the diet. Chloroform was found to be much more possonous to cilia than ether. The effect of numerous other drugs and vapors was also determined.

Hill believes that his method of study lends itself readily to tests of the toxicity of solutions and vapors used on the respiratory membrane

IACOR W MORA M D

Baum II L Acute Laryngotracheobronchitls

J im Jl Ass 1928 xtl 1997

Observations were made on a series of tenety, four cases of acute lan pargitarcheobonchira which were so severe that it become necessive mirroduces as tube to prevent asphy nation. Most of these were associated with acute respiratory tract infection. In two the condition was a complication of measles and in four was associated with a foreign body in the lung.

Laringotrachodoronchitis occurs almost evelusivel includition It begus as an exter hinitis and pharjnagits with a dry croupy cough. Gradually, and progressively signs of reputator, embatrass ment develop. There is retraction of the supratternal and supractiveutlar spaces. As the condition progresses cyano is associated with paleness becomes quite marked. The cyanois is not so severe as that seen in a cartle laryngeal obstruction but is characteen in cartle laryngeal obstruction but is characteen in cartle laryngeal obstruction but is characteen in cartle laryngeal obstruction and cardiac strain are even more important than the respiratory obstru tion being more severe.

In the diagnosis of the condition roentgenograms are important as the blocking of various bronchi can be ascertained thereby The obstruction is usually due to a subglottic swelling of the mucous mem brane As the vocal cords are seldom involved the voice is onl slightly impaired in contrast to obstruction from larvngeal diphtheria Glottic spasm may occur The not infrequent subnormal tempera ture is occasionally due to insufficient oxygenation The mucous membrane lining the bronchi is dry there being little secretion The secretion is so tenacious that it i very apt to plug the bronchus In the cases of three patients who had been sub-jected to tracheotomy. Baum was able to relieve the dryness of the bronchial mucosa by substituting an intubation tube for the tracheotom) tube. He be heves the the drying of the secretion is due to the entrance of air into the traches directly through the tracheotomy Therefore he advocates the use of an intubation tube before resort is had to tracheotoms If the lary ageal obstruction per ists for longer than three weeks he introduces a tracheal cannula None of Baum's patients was over mine years of age As therapy Baum advocates intabation for at least three weeks At the end of that time tracheotomy may be done. In cases of obstruction from plugbronchoscopy with aspiration is indicated

Of the author's twenty four patient ten ded The cause of death was bronchopneumonia in four cases lobar pneumonia in three cases industrial pneumonia in two cases and plugging of smiller bronchi in one case

Acros Ocusen 'UD

Wright A J M Silent Tracheotomy Its St nificance Proc Roy Soc Wed Load to 3

The author points out an unusual but easily recognized accident which may occur during opera tions upon the upper air pas a es or mouth. It is recognized from the silence following trachestoms performed for audden and absolute cessation of respiration during such operations is is the care following an overdose of anasthetic there is no cough and no spontaneous attempt at respiration No air enters on artificial respiration although there is no evidence of glottic obstruction. When the trachea is opened no sound is noted. The cause of these phenomena is a pluz of tissue or small ponge which has slipped down and lodged at the traches bifurcation The plug may be readily removed by the blind introduction of forceps throu h the tra FRANK B BERRY M.D. cheotomy wound

Jackson C Bronchoscopy Past Pre ent and Future Vers England J Med 1928 cross, 7 9

Bronchoscopy is a development of the hitygeats. The first bronchoscopic treatment worth of mention was the use by Coolidge in 1865 of an onen urethroscope to remove a portion of a b rubber tracheotomy cannula from the r_b bise char through an already present trach cotoms & tuk. About six years later a distal, lighted bronchoscope was nivested.

Improvement of the technique the devel prestof teamwork, and the elimination of general swittens has brought bronchectory, to such a dig of per fection that 98 per cent of aspirated fores a bodies may now be removed through the mouth with a mortality of less than 2 per cent

A they of the most important the coveres mide possible by the development of it is neared of animage the tracheotronethal tiet ar mentioned. The defensive power of the Lung against are bone infection was demonstrated when the deeper bone have shown to be pratically sterile. It is the layar was approached bacteria were found in increasing numbers. The two obvious elements in the defensive power are the cough reflex and the citizer action. Impairment of either of these is an important factor in the ctook go of suppurative disease of the lung is an outgrowth of broadboscopy, the Federal and in the cought of the lung is an outgrowth of broadboscopy.

Laustic Act was enacted to provide for the labeling of all household he products with the word polson. This will help to prevent structure of the c sophagus in children. Another outgroath of broad choscopy has been the 'unercan Bronchoscopic Society which has now fifty active members.

The present activities of the bronchoscopic clinic

are enumerated as follows

I Endoscopy for research Endoscopy has greatly facilitated the study of pulmonary physiology and pathology. It affords a mechanical means for the placement of materials inert as well as in fectious in the lungs and of observing the local as

well as the general effect produced 2 Endoscopy for foreign bodies This represents tolay only about 2 per cent of the endoscopic examinations performed The other 98 per cent are for the diagnosis or treatment of diseases

3 Endoscopy for disease In all diseases of the lary nr trachea bronchi pulmonary parenchi ma mediastinum hypophary nr oxophrigus and stom ach direct vi no biopsy and direct therapeutic or operative measures have been added by endoscopic developments to the resources of the physician and surgeon

Among accomplishments in diagnosis and treat ment is direct laryngoscopy I ormerly it was im no sible to look at the laryng of a haby

Bronchoscopic aspiration of suppurative four which can be drained through the mouth harmlessly and authout general annesthesia is now possible. It is the author is opinion that the fundamental factor in all pathological conditions of the lungs is impairment of the defensive power of the lung due to impair ment of drainage and vecation. By bonchoscopic chanage the foads is taken off the ciha and spontaneous drainage is established. With the restoration of sertation and spontaneous drainage the defensive of sertation and spontaneous drainage the defensive

power of the lungs 1 re established In the treatment of pulmonary suppuration following ton-illectomy bronchoscopic aspiration is the method of choice in the incipient stage

Since bronchoscopic studies have revealed the cause of a fatal form of septic bronchitis due to vegetable substances especially the peanut kernel it is now possible to appear to the peanut kernel.

it is now possible to prevent this condition.

In sprinchetosis and Vincent's infection, the diagnosis of bronchial involvement is made from uncontaminated specimens removed from the bronchi

through the bronchoscope
In many cases of supposed asthma the broncho
scope has revealed some form of mechanical obstruc
tion of the bronchi Hence the author's aphorism

Ill is not asthma that wheers
The mechanism of pottoperative massive collapse
of the lung was discovered by Lee and substantiated
functions of the lung was discovered by Lee and substantiated
to the control of the control of the control of the control
is due to ob truction of a bronchus by viscid secre
tion kolmer found that the congulation of the pus
is due to an excess of fibrin It is assumed that are
cross of filtingoen from passive congestion of the pus
dues excessive viscosit. The vi cit decretion can
be say rivel with the bronchoscope. The result is
and in the prompt exprision of the lung. Coryllos and
Brindaum have demonstrated that pneumonia, is

es entially an atelectasis due to obstruction of the broacha by a thick cru late and hence relievable by broachoscopic aspiration 4 Elucation of the undergraduate The student is instructed regarding the symptoms diagnosis

prognosis and prophylaxis of foreign bodies in the air and the food passages but receives no training in the technique of bronchoscopy

5 Education of the graduate. The technical difficulties of endoscopy and the methods of doing it along the systematic lines that have proved satis factory are being offered in the larger postgraduate schools.

6 Education of the public Civic organizations re being used to educate the public in prophylaxis Such instruction will prevent about 85 per cent of the cases of foreign body in the air and food pasages and oo per cent of the cases of 15 e stricture

The author believes that in the future massive artelectasis and suppurative disease will be treated by bronchoscopic aspiration a a first resort rather than by opiates and antibedicus which only hinder spontaneous drainage by paralyzing the cough refer and that the surgeon the interniat and the roentgenologist will ask the bronchoscopist to add important diagnostic information to their findings.

1 EDWIN LIREPATRICK M D

Edwards A T The Surgeon's Point of View of the After Effects of Surgeoil Procedures in Pul monary Tuberculosis Int U I 1938 1602 Chandler F G The Physician's Point of View of

the After Effects of Surgical Procedures in Pulmonary Tuberculosis Brit 3f J 1928 II 605

Envanus states that cases of pulmonity tuber culosis in which the condition has become active again after the induction of artificial pneumothorax invariably respond well to thoracoplasty. The demonstrates a considerable of the control of the con

A preliminary phrenic evulsion followed by a two stage thoracoplasty from the first to the tenth rib is advocated by the author Apicolsis; and phrenic evulsion are discussed briefly and the results in hity nine surgically treated cases of pulmonary tuberculosis are summarized

CHANDLER di cusses briefly intrapleural [neumolisis phrenic evul ion apicol)sis thoracoplasty and olecthorax. He emphasizes the importance of not allowing the patient who is not doing well to pass become the stage in which artificial pneumothorax might be beneficial.

J IRINA DOLGETY M D

Joannides M. The Etiology of Pulmonary Ab

From experiments carried out on dogs the author concludes that the following factors are of

violet rays did not accelerate the ciliary movement whereas larger doses slowed or stopped the culia The rate of chary movement was not affected by a deficiency of Vitamins A and D in the diet Chloroform was found to be much more poisonous to cilia than ether The effect of numerous other drugs and vapors was also determined

Hill behaves that his method of study lends itself readily to tests of the toxicity of solutions and vapors used on the respiratory membrane

JACON M MORA M D

Baum II L Acute Laryngotracheobronchitis J Am M Ass 1928 xc1 1907

Observations were made on a series of twenty four cases of acute lary ngotracheobronchitis which were so severe that it became necessary to introduce a tube to prevent asphyxiation. Most of the cases were associated with acute respiratory tract infec-In two the condition was a complication of measles and in four was associated with a foreign body in the lune

Larvngotracheobronchitis occurs almost exclusively in children. It begins as an acute rhinitis and pharyngitis with a dry croupy cough Gradually and progressively signs of respiratory embarrass ment develop There is retraction of the suprasternal and supraclavicular spaces. As the condition progresses evanosis associated with paleness becomes quite marked. The cyanosis is not so severe as that seen in acute laryngeal obstruction but is characterized by a definite paleness due to exhaustion. In the author's opinion the exhaustion and cardiac strain are even more important than the respiratory obstruction being more severe

In the diagnosis of the condition roentgenograms are important as the blocking of various bronchi can be ascertained thereby The ob truction is usually due to a subglottic swelling of the mucous mem brane As the vocal cords are seldom involved the voice is only slightly impaired in contrast to obstruction from laryngeal diphtheria Glottic spasm may occur The not infrequent subnormal tempera ture is occasionally due to insufficient oxygenation The mucous membrane hinng the bronchi is dry there being little secretion The secretion is so tenacious that it is very apt to plug the bronchus In the cases of three patients who had been sub-sected to tracheotomy. Baum was able to rehere the dryness of the bronchial mucosa by substituting an irtubation tube for the tracheotomy tube. He be lieves that the drying of the secretion is due to the entrance of air into the traches directly through the tracheotomy Therefore he advocates the use of an intubation tube before re ort is had to tracheotomy If the larving all obstruction persists for longer than three weeks he introduces a tracheal cannula None of Baum's patients was over nine years of age 1s therapy Baum advocates intubation for at least three weeks At the end of that time tracheotomy may be done In cases of obstruction from plugs bronchoscopy with aspiration i indicated

Of the author's twenty four patients ten ded The cause of death was bronchopneumonia in for cases lobar pneumonia in three cases inflorned pneumonia in two cases and plugge of smiler bronchi in one case ALTON UCHSVER M.D.

Weight A J M Silent Tracheotomy Its St nificance Prot Roy Soc Md Lond to S XX1 1780

The author points out an unusual but call recognized accident which may occur during open tions upon the upper air passages or mouth Il is recognized from the silence following trachestomy performed for sudden and absolute cessation of itspiration during such operations. As is the case following an overdose of anasthetic there is no cough and no pontaneous attempt at re piratico No air enters on artificial resouration although there is no evidence of glottic obstruction. When the trachea is opened no sound a noted. The cause of these phenomena is a plug of tissue or small porge which has slipped down and lodged at the tracted bifurcation The plug may be readily removed by the blind introduction of forceps through the tra cheotomy wound FRANK B BERRY MD

Bronchoscopy Past Present and Jackson C. Ver Engl nd J Med 19 8 cm r 59

Bronchoscopy is a development of the last thriv sears The first bronchoscopic treatment nor hy of mention was the use by Coolidge in 1000 of an open urethroscope to remove a portion of a hard rubber tracheotomy cannula from the right bronch's through an already present tracheotomy fi tu's About six years later a distally highted broucho scope was invented

Improvement of the technique the devel poer of termwork and the elimination of general and her a has brought bronchoscopy to such a degree of per fection that o's per cent of aspirated foreign bodies may now be removed through the mouth with a mortality of less than a per cent

A len of the most important discoveries made possible by the development of this means of examining the tracheobronchial tree are nentioned The defensive power of the lung against air borne infection was demonstrated when the deeper bronch were shown to be practically sterile. As the land was approa hed bacteria were found in increasing numbers The two obvious elements in this defen it power are the cough reflex and the ciliary action Impairment of either of these is an important factor in the etiology of suppurative disease of the ling As an outgrowth of bronchoscopy the Federal

Caustic Act was enacted to provid for the labelling of all household lye products with the word por This will help to prevent strictures of the ecsophagus in children Another outgrowth of bronchoscopy has been the American Bronchoscopic Society which has now lifty active members

The present acts thes of the bronchoscopic class

are enumerated as follows

Congential syphilis rarely involves the excepting in the secondary stage of syphilis a severe excepting this may cause displains but this disturbance rapidly responds to treatment. In tetruary luse local sed gummata occur usually in the upper or lower that of the canal and on rupture produce a gum of the control of the lumen.

The diagnosis is not always easy. The disphagia is usually paulies unders a phary ageal lesons is present. Signs of syphilis are found elsewhere in the boly. The complangeal stenosis is very gradual in its course the dysphagia lasting for from four to twelve months before the true nature of the lesion is discovered. Direct local evaluation is necessary to disriguals lattic stenosis from other varieties of disriguals lattic stenosis from other varieties of addinguals lattic stenosis from other varieties of introduced in the disripation of t

Geophagoscopy is absolutely necessary to commende from the diagnosis Biopps must be performed be cause non ulcerating guinnata closely resemble can cer A negatire Wassermann reaction should not lead the diagnostituan astray as many luctus in the testing stage have such a reaction. Very often the diagnosis may be confirmed by a serological study of the spinal fluid. On the other hand one must be careful not to jump at the conclusion that a luctus can be considered in the exophagus when the Wasser mann reaction is strongly positive. Many patients with cancer also have syphilis.

The treatment of esophageal syphilis consists in anti-syphilis measures and frequent dilatation of the

esophagus with bougues

The author reports two cases in which complete

recovery resulted Yorkis A SLOCUM VI D

Friedenwald J Feldman VI and Zinn W F

Ulceration of the Esophagus Experimental Study Arch Int Med 1928 xln 521 From experiments on dogs the authors draw the

rom experiments on dogs the authors draw the following conclusions

1 Ulcers of the ecsophagus produced by the re

moval of a small section of the œsophageal wall through the œsophagoscope will heal readily within a week

2 When esophageal ulcers are treated with a to per cent solution of hydrochloric acid they will become chronic and their healing will be markedly retarded

3 I erforation is a frequent occurrence when deep penetrating ulcers are treated with acid

4 Uncomplicated ulcers héal readily and do not form strictures 5 In most cases of ulceration of the exophagus

\(\frac{1}{2}\) ray examination reveals defects and spasm which are characteristic

6 Large penetrating ulcers may simulate diver ticula 7 An ulcer of the cesophagus is clearly demon

strated on esophagoscopic examination
Toen J Maloney M D

MISCELLANEOUS

Roberts F Errors in the Interpretation of Radio grams of the Chest Brit M J 1928 11 509

In the ordinary method of roentgenography of the chest with the roentgen tube at a distance of or less from the film considerable error is introduced by the divergence of the rays. It is the purpose of this article to show how misleading such errors may be and how they may be reduced to the minimum Detailed descriptions and illustrations are given to show exactly how they are produced They may be responsible for lack of proper correlation of the roengenological with the clinical findings greater the distance of the part examined from the film and from the midline the greater its distortion Slight variations of the central ray also produce changes in the relative position of different parts rendering accurate duplication of roentgenograms extremely difficult

In order to avoid the errors cited orthodiagraphy and teleroentgenography are employed. Orthodiag raphy with the use of only the central ray by fluoroscopy permits accurate recording of bold out lines such as those of the heart but does not make possible the demonstration of fine details. For the atter teleroentgenography is best adapted. It con sists in increasing the distance between the film and the tube so that the errors due to divergence are reduced to the minimum. The distance usually employed 13 2 meters a distance at which for all practical purposes the rays may be considered parallel This method first suggested by Kohler originally had the disadvantage of requiring prolonged exposure but modern technique and appa ratus have entirely overcome this defect. The author describes the technique he uses in detail

ADOLPH HARTENG M D

great importance in the production of suppuration in the lung

The abolition of the pharyngeal and cough reflexes in general anæsthesia 2 The presence of blood mucus or hastric con

tents in the mouth during anaesthesia The presence of fusospirochata in the mouth

The presence of chronic infection in the nose mouth or paranasal sinuses 5 The dim usions and physical state of aspirated

material 6 The action of the cilia which clear the trachea and broachs

7 The specific immunity of the lung to certain organisms PILL W GREELEY WD

Mandes W F Lung Abscess Following Tonsillec tomy from the Standpoint of the Roentgenolo gist Allaniic M J 1928 xxxi 900

The majority of the lung abscesses seen by the author occurred in the lower lobe on the right side and seemed to be in more or less clo e relation to the root area.

Manges is of the opinion that abscesses at the lung surface and not in relation to a rea quably large bron chus are probably the result of surface lymphatic invasion. Those in the interior of the lung and not in contact with the chest wall or the root area may be fue to blood stream infection. Those at the root area or in the lobes near the root are probably direct bronchial infections caused by infectious material drawn into the bronchi during operation

The size of the area of involvement however does not indicate the extent of lung tissur destruction The author has seen marked destruction of lung tis ue in a small area of involvement and has known very large areas to clear up without permanent de struction of lung tissue. As a rule, the larger the area of involvement the greater the extent of destruction

In the early stages of the disease the outlines of the bronchial tubes can be seen through the shadow of the evudate There is I tile or no tendency toward sharo limitation of the lesion. As the exudate in creases the bronchial shadows gradually become more obscure. When the lesson is progr ssing the marginal shadows remain more or less indistinct

If broncho copy is to be the method of treatment localization in relation to a lobe portion of a lobe or a bronchus is sufficient. This can usually be estab lished fairly accurately by means of anteroposterior and lateral views or by stereoscopic films RALPH B BETTMAN M D

Rienhoff W F Jr and Davison W C Empyema in Infants under Two Years of Age Arch DIE 1028 XVII 676

Since the World War the treatment of empyema has gradually become more conservative in that closed drainage has been used more frequently than open thoracotomy The authors analyzed eighty cases of empyema occurring in infants under two years of age who were admitted to the Johns Hookins Hospital Of these eighty cases there two were not operated upon In thenty the diagnoss was not made until autopsy. The fact that a corner diagnosis was missed in 25 per cent of the care his the following explanations

I Because of the small chest area it is differ t to dist rgush the relationly small area of doll go by percussion

2 Because of the associated dan er thoracea tesis is not carried out as often as it should be Roentgenograms are often of no assi tance in

the differential diagnosis of pneumonia and pleural ебимоп The authors advise the use of fluoroscopy wars

fluid is suspected especially in the cases of children Of the forty eight infants who were operated upon either by rib resection or the insertion of a trocar cannula rineteen (30 6 per cent) died. Of nine patients upon whom only one or more thoracentees were performed one recovered and six died within forty eight hours after the diagnosis of empress was made and before an operation could be per formed

The forty eight cases in which operate was done were studied especially to determine whether open or closed drainage is the better procedure mortality was highest among the infants suffering from left sided and double empyema About Incthirds of the cases of empyema were caused by r neumococci but in this group the mortably #25 one half that of the group in which the infection was due to other organisms. In the ca es with com hes tions the mortality was four times as high as in cases without complications Contrary to the su thors expectations the mortality as lower (4) per cent) in the cases in which the open trethod-no resection-was used than in those operated upon b

the closed method (50 per cent) The authors conclude from their study that in cases of empyema in infants under two years of age the method of choice is open thoracotomy Comp cations are less apt to occur following open drainage than following closed drainage Open thoracotory nb resection) is indicated especially in cases of pneumococcal empyema as in the senes of cases revie ved a per cent of the inf ats with pneumococcal emprema recovered following open drainage whereas only so per cent survived following closed draw age. In the entire ser es in which open thorscotom was done in both the streptococcal and pneumococ cal type the mortality rate was 27 per cent

ALTON OCH NEK M D

GESOPHAGUS AND MEDIASTINUM

Abel A L Syphilis of the Esophagus La cl 1018

A diagnosis of suphilis of the ersophagus is made in only 1 or 2 of every 1 ooo cases of ceso shagest lesson Persons with resophageal syphilis seldom apply for treatment until dysphagia occurs as the result of strasmodic or organic stenosis

In 47 per cent of his cases of mesenteriolitis the author found streptococci colon bacilli were of sec ondary importance

As a rule but not always the course of the mesen tenolitis conforms to that of the appendicitis The injection of the mesenteriolum may progress and lead to thrombophlebitis manifested clinically by a chill When thrombonhlibitis occurs the patient's life can be saved only by high ligation of the ileocolic vein. If hepatic ab cesses are already present, even this intervention comes too late Runture of a suppurative mesenteriolitis into the free peritoneal cavity is also preatly to be feared the consequent peritorities is much more serious than the diffuse peritoritis which follows the perforation of an ab scess of the appendix. However, most inflammatory infiltrations of the mesenteriolum enter upon a chronic stage with substitution by connective tissue The mesenteriolum shrinks at the sites of juncture of the chief lymph vessels 10 between the lower and middle third At these points stenosing kinss occur which cause mechanical nervous and vascular disturbances The mechanical disturbances are most important as they are the causes of recurrence RIESS (Z)

GASTRO INTESTINAL TRACT

Allmentary Fever (Sulle febbri alimentari) I oliclin Rome 1928 xxxv sez prat 1510

In 1906 Finkelstein demonstrated that there is a close relationship between diet and fever not only in acute febrile dy spepsia but also in infectious fe tile d eases. In 1911 he reported that the sub stances which cause such fever are sugar and salts contained in the food which bring about fever pro lucing chemical reactions. A necessary condition for the development of the fever is a change in the water metabolism and the water content of the body Finkelstein does not think that the fever is caused by bacterial toxins He believes that in febrile dyspep sia the darrhoea and vomiting are caused by the ac tion of bucteria but that the fever is the result of the deficiency in water brought about by the diar

thes and vomiting There are three theories attributing the fever to special con litions of metabolism. The first is that in the presence of a certain deficiency of water products of protein catabohsm are formed that cause fever by acting like bacterial toxins. The sec ond is that alimentary fever is due to stagnation of heat from insufficiency in the supply of sodium chlori le resulting in decreased elimination of water the fever depen ing not upon the absolute amount of salt but on the corce tration of the solution According to the third theory that of Rietschel the fever is due to the increased production of heat from increased metabolism Laurinsich holds that the fever is due not to increased metabolism but to in tense diuresis which causes a great loss of water He suggests that as sometimes a gly cosuria is associated with the increase in temperature the vegetative nervous system either alone or in association with a disturbance of the trophic center may play a part in the production of the alimentary fever ALDREA G MORCAN M D

Guther E H The Effects of Surgery of the Stomach on Its Subsequent Motor and Secre tory Functions J Am W 1ss 1928 xc1 1075

This report is based on sixty seven cases in which the following operations were performed gastro enterostomy thirty cases pyloroplasty twenty two cases closure of a perforated ulcer two cases re section three cases gastroduodenostomy two cases partial gastrectomy one case division of the anterior and posterior gastric branches of the vigus one case pylorectomy one case Polya resection two cholecystogastrostomy one case gastroenterostomy disconnected one case and pylo rectomy pastroduodenostomy one case

A rice meal was given and ten hours later the fasting stomach contents were obtained by means of These fasting contents were the Rehfuss tube studied with regard to quantity consistency char acter color free acid total acid mucus pus gross blood occult blood starch retention and micro scopic appearance. An Ewald meal was then given and fractional examinations were made until the stomach was empty Usually on the following day the stomach was examined roentgenologically after a harum meal. The size shape position tone and peristalsis of both the stomach and duodenum were especially noted Cases which before operation showed evidence of hypertonicity and hyper peristalsis of the stomach with a spastic pylorus and were relieved by the operation showed post operatively absence of the spasm hyperperistalsis and hypertonicity. In cases in which no relief or only partial rehef was obtained from the operation, the snasm tetanic contraction and hypertonicity per sisted The author believes that in the absence of organic obstruction these conditions are due to perigastritis peripyloritis and periduodenitis

Motor function is best studied by fluoroscopic examination because especially in cases with a gastro-enterostomy there is constant regurgitation into the stomach from the intestine which makes the Lwald meal unreliable

The cases in which gastro enterostomy was done showed a shorter emptying time than those in which pyloroplasty was done

In a not inconsiderable number of cases without symptoms both the Ewald meal and fluoroscopic studies showed delayed emptying. This observation demon trates the importance of successive investigations after operative intervention since information may be thereby obtained which will show the possibility of future pathological function and lead

to proper prophylactic measures The acidity of the stomach is controlled by the regurgitation of intestinal contents which contain

not only intestinal but also pancreatic and biliary

SURGERY OF THE ARDOMEN

ABDOMINAL WALL AND PERITONEUM

David V C and Sparks J L The Perstoneum as Related to Leritonitis In 1 Surg 1928 ITTTUD 672

This article deals with the absorption of toxins from the normal and inflamed peritoneum. Diph therry torin was used because of its known lethal properties in guinea pigs. It was found that when a known toxin was injected into the normal peri toneum of dogs it passed directly into the blood stream as well as into the hamphatics in sufficient quantities to be fatal to guiner pigs centration of the toxin and chyle seemed to be greatest about thirty minutes after the intra peritoneal injection The intraperitoneal injection of 5 c cm of a 10 per cent turpentine emul 10n on to 0 successive days caused a severe peritonitis with marked fibrin deposits and a serosangumous fluid exudate A study of the passage of diphtheria town from such an inflamed peritoneum indicated that in the presence of a plastic exudate the passage of toxin from the peritonium into the chyle was nil and that if the toxin passed into the blood stream at all the quantity was much smaller than that entering the blood from the normal peritoneum

The presence of a transudate favors more rapid

absorption of the toxins

The authors conclude that in the treatment of peritonitis interference with the plastic exudate formed should be avoiled as much as possible Their findings suggest also that in the early hours of peritonitis the chief danger is the absorption of toxins and bacteria into the circulation directly and by way of the lymphatics whereas later absorption from the peritoneum becomes less important and the chief danger is the development of a local con dition such as paralytic ileus MANCEL F LICHTENSTEIN M D

Romano N and Rey S Duodenal Drainage and Duodenal Feeding in Certain Cases of Incon trollable Vomiting in Peritonitis (f I sou laje de du deno y la alimentacion du denal en Igun s casos de vomitos incoercibles por per ton tis b cilo sal Res Soc de med inte na y Soc det il to 9 11 80

The authors report good results from the use of the Emborn duodenal tube in cases of incontrollable vomiting

Two patients with chronic plastic peritonitis suf fered periods of complete gastric intolerance with marked emaciation and lo s of weight By means of intermittent duodena! feeding it was possible to re here the romiting and a immister medication. The treatment was followed by a gain in weight WILLIAM R MEERER M D

Steinberg B and Goldblatt H Peritonitis R The Production of Active Immunity Against the Fatal Outcome of Experimental Izcal Peritonitis Arch Int 3led 1928 1h, 413

A group of eight dogs were immunized by the intraperitoneal injection of a suspension of colon bacilli which had been taken from the lower re testine of another do, suspended in saline solution, and killed by heating to 58 degrees t. for one hour Four such injections were given at intervals of f or Pourteen days after the last injection the immunity attempted was tested by the intrapen toneal injection of 5 gm of solid frees suspended to 15 cm of normal aline solution. Five of the eight dogs died

Another group of eleven dog were similarly in munized with living colon bacilli When tested fifteen days later by the intraperitoneal injection of forces ten lived and one died of a serofibrinopurulant peritonitis Of two dogs that were killed later one showed a few adhesions and the other was found normal

Of a group of fifteen non immunized dogs injected with a clear suspension of facal material all die) within twenty four hours of severe hamorrhane serou and fibrinopurulent peritonitis

Of three non immunized dogs which were given injections of feecal material that had been heated all survived

The authors conclude from these experiments that in dogs it is possible to prevent death from frecal peritonitis by active immunization with to a bacilli and that killing by heat greatly dimini hes the antigenic power of the organisms

PAUL W GREETEY M D

Appendicular Mesenteriolitis (Mesen teriol t s append cularis) Bet a kin Chir tots

From the standpoint of pathological anatomy the mesenteriolum is involved in every case of scute appendicitis but the symptoms of the mesen teriolitis are overshadowed by the other symptoms. In this article attention is called to the dangerous complications that may arise from the appendicular mesenteriolitis and the rôle of the me enteriolim in the development of so called chronic appendi citis is discussed

Various phases of inflammation may be dis tingui hed the stage of collateral irritation that of acute mesenteriolitis and that of complications In each stage the process may be brought to a stand still by reparative processes but restoration to normal is possible only in the beginning later healing occurs by scar formation and adhesions of by encap ulation of the abscesses

Ferlz II

c 111 564

should be disregarded. As regards co operation be tween surgeon and radiologist he is in full accord with Paterson. Adolphi Hartung M.D.

with Paterson ADDIPH HARTUNG M D

Horsley J S Some Stomachs I Have Met Vir
g nia M Month 10 8 by 370

The author discusses the normal physiology of the stomach and cites several cases to show how lessons in other organs such as the appendix or gall bladder may reflexly give rise to gastric contractions and hunger main. The hest method of diagnosing gab

tric lesions is \ ray examination
In discussing the relation between chronic gastric

ulcers and cancer of the stomach. Horsley states that from to to 20 per cent of lesions diagnosed clinically as chronic gastric ulcer will prove to be cancer. In conclusion, Horsley reports forty one cases in

which he operated on the stomach and duodenum in a period of fourteen months

PAUL W GREELEY M D

Kalbfleish W K Diverticula of the Stomach

Am J Roenteenol 1928 xx 218
Bernstein B M Diverticulum of the Stomach
Am J Roentgenol 1928 xx 224

hablbesh and Bernstein evch report one case of diverticulum of the stomach. In both instances the diagnosis rested entirely upon the roentgen ray examination and the diverticulum was an inoidental finding. In the case reported by Kablbesh the diverticulum was een most distinctly in the oblique was with the patient in the horizontal position. In the case reported by Bernstein it was located on the lesser curvature just below the cardia. From the reports in the literature Bernstein concludes that most diverticula occur in this location whereas Ablbesh reviews the anatomy of the stomach to arms at the conclusion that the posterior wall near the cardia is the area of lessit resistance.

Betrasten reminds us that a diverticulum of the stomach may produce symptoms similar to those of a pretrating ulcer and he believes that treatment shoull be advised accordingly. Aslibitions states that may decision as to treatment depends upon the symptoms. No definite rule can be laid down but it should be kept in mind that all diverticula are potentially inclied to undergo cancerous change

CHARLES H HEACOCK M D

Mandl F Inadequacy of the Weber Ramstedt Operation in Pylorospasm (Insuffix enz der Web r Ramsteltschen Operation beim Pyloro Pasmus) Zentralb f Ch. 19 8 lv 662

Hundsdeerfer places the mortality of the Weber Raw wheld operation as between 12 and 16 per cent Death may be due to operative shock unobserved muccal input, sumorinage from the operative wound and the giving way of the abdominal sutures wound and the giving way of the abdominal sutures Anotter danger lies in not doing enough as in Mandis cad a four months old female child who had sad attacks of womining ever since the second week of life At operation the pylorus from the

antrum to the pylon. ven was found to be five tunes thicker than normal. The mutosa was dissected free partly by dull partly by sharp dissec tion over an area of about 8 cm and a fold of omentum sutured over the defect. The child vom tred immediately afterward and died one week latter. At autopsy the stomach was found markedly run to the control of the control of the control of the succession of the control of the control of the thicker was found marked by the thicker was the control of the control of the succession of the control of the control of the succession of the control of the control of the succession of the control of the control of the control of the succession of the control of the control of the control of the succession of the control of the control of the control of the succession of the control of the control of the control of the succession of the control of the control of the control of the succession of the control of the control of the control of the succession of the control of the control of the control of the succession of the control of the control of the control of the succession of the control of the control of the control of the succession of the control of the control of the control of the succession of the control of the control of the control of the succession of the control of the control of the control of the succession of the control of the con

In 1927 at the Congress on Digestive Disturb ances held in Vienna Forsell stated that the mucosa plays a rôle in penistalsis and that the autoplastic mechanism of the mucosa acts in co ordination with

the movements of the muscularis

The danger of an inadequate Weber Ramstedt operation may be avoided by testing the patenty of the pylonic canal by invaginating the nuccess into it pressing out the gastric contents or introducing fluids into the stomach. If the pylorus is not patent dilatation by the method of Loretta pyloroplasty or gastro-enterostomy may be done

Gallagher W J The Effect of Injections of Hydro chloric Acid on the Gastric and Duodenal Mucosa Arch Surg 1928 xvii 613

The normal hydrochlone acid content of the gastric juice of dogs is 0 a per cent. In experiments on seven dogs with jejunal transplants to the stom sich the author injected hydrochlore acid once or twice daily in amounts of from 200 to 225 cm of a 02 0.02 or 0.6 per cent solution. In a control group of six dogs he injected a 0.6 per cent solution in similar amounts two or three times daily in similar amounts two or three times daily.

An acute ulear developed in two of the dogs and a chronic gastric ulear in one. The most constant observations were acute and chronic gastritis with multiple erosions. These changes were greater when the high concentrations of acid were used.

The author calls attention to the similarity of the lesions to those found in the stomach and duodenum in man and the probable importance of hydrochloric acid in their production

ARTHUR L SHREFFLER M D

Moll H and Flint E R The Depressive Influence of the Sympathetic Nerves on Gastric Acidity Bril J Surg 1928 xv1 283

The purpose of this study was to determine the infunct of the sympthetic nerves on gastine acidity Evidence of the sympthetic nerves on gastine acidity Evidence in layor of the depressive influence of the splanchine nerves on the stomach is deducted from clinical observations: (b) the effect of thyroid feeding on gastine secretion (3) characterized by adrenalin and incotine and (4) the apprehenced by adversaline and incotine and (4) the apprehence of the continuous on acid secretion. Such an influence is indicated also by observations on the secretion of hydrochions and after bilateral section of the splanchine review in the first processing the secretion of the splanchine review in the first processing the secretion of the splanchine review in the first possible secretion.

secretions The author was able to predict the degree of acidity with a fair degree of certainty from the color of the gastric contents the more vellow the contents the less the acidity. The acid values vary considerably in a single digestive phase. The changes are due to variations in the amounts of regurgitated intestinal contents. Cases were observed in which the acid values ranged from those of achylia to those of hyperchlorhy dria. In the majority of such cases there were no symptoms

After gastro-enterostomy 58 per cent of the patients showed an acid value ranging from achylia to normal and 42 per cent showed hyperchlor hydria After pyloroplasty 10 per cent showed acid values ranging from achylia to normal while 90 per cent showed evidence of hyperchlothydria Pólva resection one patient had acid values ranging from achylia to normal and the other had achylia Four cases in which pylorectomy with resection was done showed achylia In the two cases in which a perforated duodenal ulcer was closed byper chlorhydna was found In the case of cholecysto gastrostomy there was achylia. Of the two cases of gastroduodenostomy one showed hypochlorhydria and the other achylia. In the case in which a gastro enterostomy was di conne t 1 hyperchlorhydria was found. In the case of division of the gastric branches of the vagus the findings ranged from pormal to hypochlorhydeta

In all examinations for occult blood during the course of the Ewald meal the reactions were post tive The author attributes this finding to trauma It is emphasized that in the interpretation of acid

values great care is necessary as acidity varies considerably even under normal conditions

Gaithe believes that the reduction in gastric acidity following operations on the stomach is due either to the regurgitated intestinal contents or to inh bition of the activity of the gastric glands Associated disturbances are caused more by motor function than by changes in secretion. The regurgitation of intestinal contents has less influence on the gastric acidity two or three weeks after operation than later ALTON OCHANGE M D

Cole L G The Status of Roentgenology in Gastro Enterology Surg Clin \ In 19 8 v11 1007

Roen's nology is a valuable adjunct in gastrointestinal diagnosis but there is still controversi among roentgerologists as to whether it should be used for any purpose besides diagnosis Formerly it was taught that in reporting his findings the roentgenologist sho ld not attempt to interpret them in terms of pathology Cole believes however that the findings of Y ray examination should be inter preted by the roentgenologist so that they will help in the determination of the prognosis and the type of treatment He states that roentgenology is a highly organized specialty and not a mere labo atory aid and the roentgenologist must assume the respon sibility of deciding the more serious problems of prognosis and indications for treatment

After treatment roentgenographic examinations should be made to determine whether or not the measures used have succeeded in eliminating the pathological process. A single \ ray examination may easily lead to a faulty conclusion. This is act to be true especially as regards the indications for treatment

After the roentgenologist is thoroughly trained in theory and practice his skill will be greatly increased by observation of his errors at the operating o autopsy table He should make a careful study of pathological specimens and compare the changes found with the X ray findings upon which his diagnosis was based CORE I GLASTEL "B

Paterson H J and Hernaman Johnson F The Fallacy of V Rays in Abdominal Dut nosis best M J 1028 H 50, 598

PATERSON holds that two great fallaces east m connection with rause ogy especially in abdimical work (1) that radiology can be a substitute f careful and thorough chinical examination a 11) that there is such a thing as a radiological diagnos He emphasizes that the radio ugi to repo t should not be regarded as infallible as it may err because of fallacies incidental to the roentgen rays or the tech nique because of misdirection or because of inter pretation In the discussion of these poss bittes illustrative cases are cited The following conclusions

are drawn If the roentgenographic firdings do not upport the chinical signs and symptoms the famer

should be di regarded 2 Close to operation between the surgeon and

roentgenologist is desirable HERNAMAN JOHNSON although ag eeing with some of the general statements made by Paterson refutes many of the pecific arguments pre ented in support of those statements Admitt og that failure t > find an organic lesion by the roentgen ex mination does not exclude the existence of such a les on he maintains that such evidence should receive proper consideration and should be carefully weighted against the christal evidence. The impo tance of proper technique is self evident although practical considerations at times impose definite | mils | fith regard to errors resulting from misdirection he states that such fallacres can usually be ascribed to undue limitation of the scope of examination per mitted the roentgenologist Errors in interpretation will always occur just as in other methods of diag nosis Here competence and exper ence play a major role and the necessity for the pos ession of medical knowledge by the roentgenologist to draw proper conclusions is brought into evidence. I'a erson s statement that there is no such thing as a purely roentgenological diagnosis he characterized as a play with word Roentgen findings cannot be evaluated

Finally Hernaman Johnson takes issue with Paterson s dictum that if the roentgen findings do not support the chinical signs and symptoms they

outside the scope of medical knowledge

should be disregarded \s regards co operation be theen surgeon and radiologist he is in full accord with I aterson ADDUM HARTING M D

Horsley J S Some Stomach's I Have Met 11 rinia M forth 1028 lv 370

The author discusses the normal physiology of the stomach and cites several cases to show how lesions in other organs such as the appendix or gall bladder may reflexly give rise to gastric contractions and The best method of diagnosing gas hunger pains

tric lesions is \ ray examination In discussing the relation between chronic gastric ulcers and cancer of the stomach. Horsley states that from 10 to o per cent of lesions diagnosed clinically

as thronic gastric ulcer will prove to be cancer In conclusion Horsley reports forty one cases in which he operated on the stomach and duodenum in a period of fourteen months

PAUL W GREETLY M D

Kalbfielsh W. K. Diverticula of the Stomach
Am J. Roenigenol 1928 xc 218
Bernstein B. M. Diverticulum of the Stomach Am J Roentgenol 1928 ve 224

kalbfleish and Bernstein each report one case of uverticulum of the stomach. In both instances the diagnosis rested entirely upon the roentgen ray examination and the diverticulum was an incidental In the case reported by Kalbfleish the diverticulum was seen most distinctly in the oblique view with the patient in the horizontal position. In the case reported by Bernstein it was located on the lesser curvature just below the cardia th reports in the literature Bernstein concludes that most diverticula occur in this location whereas halbfi ish reviews the anatomy of the stomach to arrive at the conclusion that the posterior wall near the cardia is the area of least resistance

Bernstein reminds us that a diverticulum of the stomach may produce symptoms similar to those of s pe ctrating ulcer and he believes that treatment should be advised accordingly Kalbfleish states that any de ision as to treatment depends upon the s) mptoms No definite rule can be laid down but it should be kept in mind that all diverticula are potentially liable to undergo cancerous change

CHARLES H HEACOCK M D

Mandl F Inadequacy of the Weber Ramstedt Operation in Pylorospasm (Insuffizienz der Weber Ramstedtschen Operation beim Lyloro spasmus) Zeniralbi f Chir 1928 ly 662

Hundsdoerfer places the mortality of the Weber Ramstedt operation at between 12 and 16 per cent Death may be due to operative shock unobserved mucosal injury hamorrhage from the operative " und and the giving way of the abdominal sutures Another danger hes in not doing enough as in Mandl's case of a four months-old female child who had had attacks of vomiting ever since the second week of life At operation the pylorus from the

antrum to the pyloric vein was found to be five times thicker than normal The mucosa was dis sected free partly by dull partly by sharp dissec tion over an area of about 8 cm and a fold of omentum sutured over the defect The child vom ited immediately afterward and died one week later At autons, the stomach was found markedly di lated and hypertrophied The pylorus was so narrow that a medium sized sound could not be passed through it the lumen being obstructed by a peasized nodule of mucosa

In 1027 at the Congress on Digestive Disturb ances held in Vienna Forsell stated that the mucosa plays a rôle in peristalsis and that the autoplastic mechanism of the mucosa acts in co ordination with

the movements of the muscularis

The danger of an madequate Weber Ramstedt operation may be avoided by testing the patency of the pyloric canal by invaginating the mucosa into it pressing out the gastric contents or intro ducing fluids into the stomach If the pylorus is not patent dilatation by the method of Loretta pylotoplasty or gastro-enterostomy may be done MANTEL (Z)

Gallagher W J The Effect of Injections of Hydro Chloric Acid on the Gastric and Duodenal Mucosa freh Surg 1928 xvii 613

The normal hydrochloric acid content of the gastric nuce of dogs is 0 5 per cent. In experiments on seven dogs with jejunal transplants to the stom ach the author injected hydrochloric acid once or twice daily in amounts of from 200 to 225 c.cm. of a 0 22 p 20 or 0 62 per cent solution. In a control group of six dogs he injected a 0 62 per cent solution in similar amounts two or three times daily

An acute ulcer developed in two of the does and a chronic castric ulcer in one. The most constant oh servations were acute and chronic gastritis with mill tiple erosions. These changes were greater when the

high concentrations of acid were used The author calls attention to the similarity of the lesions to those found in the stomach and duodenim in man and the probable importance of hydrochloric

ARTHUR I SHREPPIER M D

Molf H and Flint E R The Depressive Influence of the Sympathetic Nerves on Gastric Acidity

acid in their production

B # J Sirg 1928 Xv1 283 The purpose of this study was to determine the in fluence of the sympathetic nerves on gastric acidity Evidence in favor of the depressive influence of the splanchnic nerves on the stomach is deduced from clinical observations (1) gastric analyses in cases of hyperthyroidism (2) the effect of thyroid feeding on gastrie secretion (3) changes produced by adrenalin and nicotine and (4) the depressive action of the emotions on acid secretion Such an influence is indi cated also by observations on the secretion of hydrochloric acid after bilateral section of the solanchnic perves in the dog

CLIVICAL OBSERVATIONS

Gusiric secretion in Cra es disease Lockwood Barker King Wolpe and Leist all report a definite tendency toward an acidity in Graves disease Neil son Boenheim Maranon and Sajous report hyper

chlorhydria

A study of fifty cases of hyperthyroidism was un dertaken by Moll to obtain more detailed informa The results of gastric analysis showed that there is a constant tendency toward hypochlorhydria in Graves disease the achlorhydria is more frequent in long standing cases than in the acute cases the secretion of hydrochloric acid in cases of toric ade noma and puberty hyperplasia is usually normal or subnormal but never absent. The fact that the ach lorhy dria is most pronounced in the chronic cases in dicates that it may be due to persistent stimulation of the sympathetic system by the thyroid toxemia

The effect of thy road feeding on gastric acidity Rogers and Boenheim reported that thy rold feeding of any mals increased the gastric secretion whereas Trues dale and Hardt reported that it had a definite ten dency to depress the acidity and secretory rate

The authors repeated the experiments believing that the previous investigations were not continued over a sufficient period of time. Of the four does used two showed almost complete achlorhy dria one only a very slight lowering of the free hydrochloric acid curve and one a slight rise in the acidity

The only conclusion that can be drawn from these results is that the effects of thyroid administration vary this fact explaining previous contradictory re-

sults Changes produced by adrenalis and nicotine Ac cording to Langley adrenalin and certain related substances produce effects similar to those caused by stimulation of the sympathetic nerves although there are exceptions as in the case of the sweat glands in which sympathetic stimulation has a marked effect and adrenabn has none The mass of evidence indicates that adrenalin inhibits both the

motor and the secretory functions of the stomach In two cases of hy perchlorhydria in man in which the effect of adrenalin was studied by Moli the injection

was followed by a marked decrease in the amount of free hydrochloric acid

The effect of nicotine on gastric acidity was ob served by Moll in a series of cases of postencephalitic parkinsonism in which the drug was given in the pure alkaloid form in an attempt to reduce plastic tone A definite tendency toward hyperchlorhydria was

These experiments indicate that adrenalin lowers gastric acidity by stimulating the sympathetic nerves whereas meeting raises the acidity by paralyzing

those nerves

The depressive action of emotions on gastric aciditi There is definite evidence that gastric motility is in hibited by psychic disturbances (Cannon) In ex periments on dogs Murphy and Cannon found that gastric motility was inhibited by trauma of the tes ticles when the splanchnic nerves were intact but not after section of the splanchnic peries. Repitators distress inhibited gistric motility only when the sympathetic and vagus nerves were intact.

Although the experimental effect of unpleasant emotions on gastric secretion has not been studied extensively the evidence on hand leaves little doubt that such emotions cause an inhibition of secretica as well as of motility According to Brown the action of the sympathetic is more clearly seen in the inhibit tion of the salivary secretion than of gastric or piacreatic secretion Bennet and Venables studied the effect of emotions on gastric acidity in a hypnotized subject. The suggestion of nausea caused delayed emptying and inhibition of secretion while the sat gestion of hunger caused rapid emptying and a new the acidity. Great anxiety caused strong inhibition with delayed emptying

EXPERIMENTAL OBSERVATIONS

The effects of the sympathetic nervous supply of the stomach on hydrochloric acid secretion have not been investigated to any great extent. In expen ments on dogs in which he excised the posterior and anterior nerve roots between the fourth and eighth or between the fifth and muth dorsal segments behup fer found a constant increase of acidity attributable to a combined increase of hydrochloric and and to less extent of free hydrochloric acid Gaulter found that stimulation of the splanchnic or solar plans had no effect on gastric acidity whereas section of the splanchnics and avulsion of the solar plexus gave not to a constant and pronounced hyperchlorhydra.

The purpose of the experimental work reported in this article was to ascertain the effects of bilateral section of the splanchnics on the secretion of free hy drochloric acid Fractional gastric analyses by means of a Janeway fistula were carried out on lines similar to those of an ordinary standard test meal. The set tion of the splanchnic was verified by postmorten examination and histological examination of the ex cised piece of nerve. The operative technique and experimental method are described in detail and the results are presented in tabular form.

It was found that continuous acid secretion is in creased after bilateral splanchnic division. This is evident from the greater frequency with which free hydrochloric acid is found in the fasting juice the higher values attained and the comparative absence of bile Moreover after the sympathetic denerva tion there is more rapid secretion of acid following the test meal the acid curve rising in the second hour in 74 per cent as opposed to 34 per cent before the sympathetic denervation Duodenal regurgitation is not appreciably influenced although it is slightly more frequent after division of the nerves

The interpretation of the results of these expen ments is subject to certain reservations and criti-

I It is probable that division of the splanchnics does not insure complete sympathetic d nervation of the stomach as fibers may reach the stomach through the outer coats of blood vessels. The penpheral in

tripsic sympathetic nervous system may compensate for the loss of control due to central denervation the stomach being comparable to the heart as an auto matic organ though influenced by the intrinsic nerves. It is probable also that the vagi contain fibers inhibiting gastric secretion and thus overhal ancing the effects of division of the splanchnics These conjectures may explain the inconsistencies in the results and the fact that the hyperchlorhy dria is only relative

2 Fractional gastric analyses after a test meal do not afford reliable information with regard to the gastric secretion. The introduction of food obscures the volume of the response while the true acidity is masked by the neutralizing and diluting power of the food mass evacuation into the duodenum re

gurgitation and retention

3 Observations under the same conditions vary on different occasions rendering comparisons difficult However while the method of gastric analysis used by the author is less accurate than others it is identical with the method used in chinical diagnostic procedures and its results can be compared more easily with those obtained from clinical observations in man

In spite of these criticisms the authors believe

the evidence is sufficient to show that the sympa thetic contains inhibitory secretory fibers to the stomach the excision of which has a definite action in raising the secretion of hydrochloric acid both in the fasting juice and in the gastric secretion after a standard test meal They state that certain con clusions of clinical importance may be drawn from the observations with regard to hyperchlorhydria or achylia associated with extragastric diseases though a large number of these cases may be explained by asthenia of the gastric glands in debilitat ing conditions or by permanent damage from bac tenal towns others may be caused by persistent inhibitory reflexes (hyperthyroidism gall bladder disease). Hyperchlorhydria may be explained by neuritis of the solar plexus caused by focal infections or by a diminished tone of central inhibitory sympathetic centers as in hyperchlorhydric dys pepsia due to overwork worry and the ordinary stress of life E S PLATT M D

Hosomi k The So Called Pentic Ulcer of the Stomach and Duodenum in the Dog Which Sometimes Follows Choledochoplasty (Ueber das soge annte pepti che Geschwier des Magens un i Duodenums beim Hunde das gelegentlich der Ch ledochu plastik entsteht) 4 & f pain inai 1928 cclavn 726

In fifteen experiments on dogs in which free trans plants of arteries were used in plastic operations on the common duct erosions of the mucous membrane and submucous ha morrhages were found in the storn ach and duo lenum of seven of the animals. In one case an ulcer was formed in the duodenum while the stomach remained uninvolved. In four instances there were ulcers in the wall of the duodenum and

erosions and hæmorrhages were found in the gastric

mucosa The dogs were kept alive for at least eight) days after the operation As the result of biliary stasis marked acterus usually developed between the fifth and seventh days after the operation. In two of seven dogs the lumen of the duct was found at necronsy to be entirely closed. In three others it was narrowed and the passage of the bile was ob structed by adhesions about the transplant every case the pyloric part of the stomach and duodenum was embedded in firm adhesions ulcers had the appearance of typical round peptic

According to the findings of Iwasakı it cannot be assumed that the ulcers are due entirely to the obstruction of the flow of bile Hosomi believes that the fixation of the duodenum and mesentery by adhesions and the circulatory disturbances in the henatoduodenal ligament are among the most im portant factors The primary cause of the lesion he sees in the nerve and blood vessel erosions which when secondarily injected lead to the formation of the adhesions that cause circulatory and nervous disturbances which predispose to ulcer formation He therefore holds that pentic ulcer is a local con

dition and not merely a part of a general disease The operation and the necropsy findings in the cases of seven dogs are reported in detail

BERGEMANS (Z)

Gibson C L Acute Perforations of the Stomach and Duodenum J Am M 1ss 1028 xc1 1006

Gibson reviews a series of 123 acute perforations of the stomach and duodenum treated in the First Surgical Division of the New York Hospital (Cor nell Division) during the past fifteen years

The typical cases of acute perforation are usually easy to recognize but there are many borderline conditions which give rise to confusion and the time spent for observation too often greatly reopardizes the patient's chance for recovery. The severe protrating onset of abdominal pain with the board like rigidity of the upper abdomen is apt to lead to the diagnosis of peritoritis It should be remembered that as the contents of the stomach and duodenum are not very septic the peritonitis develops at a later stage The leakage of air and its presence in the free abdominal cavity like the classical sign of obliteration of liver dullness are not constant and should not delay operation. Most patients give a bistory of gastric disturbance

The condition is relatively rare in women. When the perforation is more than twenty four hours old the diagnosis must often be that of appendication and propressive peritonitis. When the diagnosis is uncertain a fluoroscopic examination will often reveal a layer of air just under the diaphraem usu

ally on the right side

Before operation the patient should be given a little methylene blue by mouth as this will aid recognition of the perforation. The peritoneum

should be opened in a pulidle of water so that the presence of gas may be detected. As most perfora tions are juxtapylone the pylone region should be examined first Closure is best effected by two lavers of chromicized cateut sutures. The free fluid may be conveniently removed with the sucker Drainage is generally useless except in late cases The suture line may be covered with omentum round ligament or fat II stenosis of the nylonis exists it is use to add gastro enterestomy to the Orimary operation

Many patients who recover from a perioration are cured of their ulcer This observation has restrained the author from doing gastro enterostoms as a

routine procedure

In the 123 cases reviewed there were 23 deaths following the operation a mortality of 196 per cent Of 72 cases not requiring a second operation the result was excellent in 41 satisfactors in 11 un satisfactory in 1 Two patients could not be traced Of 21 cases in which a second operation was necessary gastro-enterostoms was done in 17 sufuring of a econd perforation in 2 and mastric resection in 2 Of th 17 patients subjected to secondari gastro enterostomy 5 had an excellent result and 10 a satisfactory result 1 died of pulmonary tubercu losis one verr after the second operation and I was operated upon too recently to warrant a report of the outcome. Of the 2 patients with a second per foration requiring suture 1 had a satisfactory result and I died from the results of psychosis Of the 2 patients subjected to secondary gastrectoms r had a good result and I died. The mortality according to the duration of the perforation was 12 per cent after twelve hours 22 per cent after twenty four hours and 60 per cent after more than twenty four hours JOHN W NOTH M D

Louria II W The Surgical Treatment of Gastric and Duodenal Ulcer Ste Gt & Obl 10 8

The author reviews von Haberer's work on gastric and duodenal ulcer in his clinic at Craz Austria Refore operation a fluoroscopic examination after a harrum meal is always carried out unless it is contra in licated and after operation another \ ray examiration is made before the patient i discharged in order that the functioning of the anastomosis and the siz of the stomach may be determined. The operation is done under local and splanchnic an asthesia induced with a 0 25 per cent solution of tutocain to which a small quantity of adrenalin has been added Lefore April 1925 ether was u ed

The preferred method is the Billroth I procedure This is always used when there is sufficient seross on the posterior wall of the first portion of the duode num to insure safe apposition of the serous surfaces for anastomosis However the upper part of the cut end of the stomach a rot closed as was origin ally done by Biliroth As a rule from one half to two thirds of the stomach is remo ed. Two lavers of sutures are used for the anastomoses a continuous

cateut lock stitch for the mucisa and intermited sutures of sell, for the serosa

The second method of choice is non Haberers modification of the Billroth I operation This is used when the amount of serosa on the postenor duodenal wall is insufficient. The duodenal stumo is closed and the cut end of the stomach implanted in the side of the second part of the duodenum below the level of the papilla of Vater. This as well as the Billroth I operation seems to favor more peach physiological action and the development of new physicians control

The Billroth II operation is done when the two other operations are not adapt 3 to the requirements of the case. The antecolic method seems to be pre-

ferred to the retrocolic method

The mortality of the first method of choice is 6 ner cent that of the second and third methods to ner cent and that of the Billroth II retrottle operation 18 per cent

The Billroth I method is regarded as the not satisfactory and least apt to be followed by a recurrence or the formation of a jejunal ther Of the nationts subjected to this operation of per cent have been rendered free from symptoms or back been greatly benefited PAUL W CREEKEY MD

Wright G The Surgical Treatment of Castric Ulcer with Special Reference to the Massi e Ulcers Bril J Surg 1928 x11 253

Surgical treatment of gattric ulcer becomes necessary when medical treatment has failed to heal the ulcer permanently when permanent healing is in likely because of the size of the lessor when deformities of the stomach have been produced and when acute croses such as hemorrhage and net foration occur

After a severe hemorrhage surgical inter critical is imperative when the patient's condition has T proved sufficiently and should include the removal of the ul er Gastro-enterostomy is not suffic ert to prevent recurrence of the bamorchage Mary patients with chronic gastric ulcer die because of hemorrhage In 240 cases of hamatemess from chronic ulcer reviewed by Bulmer the mortality as 11 6 per cent and was higher among men than among nomen In several of the fatal cases gastro enterostomy had been performed previously

Old ulcers result in deformities of the stimach with increasing obstruction underputrition and death from pain and starvation. In ome cases

death is hastened by tuberculosis

The author believes that the claims made con cerning the large numbers of ulcers which develop into carcinomata are unfounded and holds that the transformation of a gastric ulcer into a carri oma is a rare event The Mayo Chinic Mounthan and Sherren estimate that about 70 per cent of gastric ulcers become carcinomatous basing their corclusions on MacCarty's report on ulcers rerios d at operation in which associated carcinoma was found in 68 per cent Wilson and MacCarty discovered evidence of previous gastric ulcer in 71 per cent or gastric carcinomata and Smithies found a clinical history of prevous ulceration in 60 per cent of cases

of eastric carcinoma

If the incidence of malignancy is as high as these reports indicate the results of the treatment of gastra ulcer by ga tro enterostomy ought to be annalling yet the Mayo Chnic statistics (Balfour) show that only about 6 per cent of patr ats so treated developed carcinoma and of this 6 per cent the majority died within two years indicating that they were probably carcinomatous at the time of opera tion. Other statistics show a similar low incidence of carcinomatous changes

Surgical methods for the treatment of chronic gastric ulcer may be classified into the indirect and the direct. Two factors which are recognized as having an important influence on the development or persistence of gastric ulcers are (1) the acid character of the gastric juice and (2) conditions interfering with emptying of the stomach. All surgical procedures except simple excision of the ulcer are designed to modify these factors and therefore to modify the physiology of the stomach

The indirect methods of operative treatment are

gastro enterostomy pyloroplasty and jejunostomy Gastro-enterostomy acts mechanically by provid ing an efficient outlet from the stomach Paterson and others believe that it has a physiological action also allowing the regurgitation of bile and pan creatic luices into the stomach and thereby de creasing the acidity of the gastric contents effect however s most marked in cases of duodenal alcer and many observers have not noted the low ening of acidity reported by Laterson mentally even diversion of the entire duodenal contents into the stomach produced only a slight lowering of acidity as did also the diversion of the bile into the stomach by cholecystogastrostomy (Weidman and Enderlen) Perman found no di minution of gastric juice in the early days tollowing Rastro enterostomy or following gastric resection unless the resection was extensive. It is therefore improbable that gastro-enterostomy has any effect on the gastric secretions. Movinhan also expresses this opinion

Sherren and others hold that the stoma in gastro enterostomy should be proximal to the ulcer which means it must be toward the cardiac end since mo t ulcers are well away from the pylorus. Hartman ha shown that when the pylorus is patent most of the gastric content passes through the pylorus when the stoma is placed so near the cardiac end The author therefore concludes that the outlet should be at the lowest point of the greater curvature regardless of the site of the ulcer

Gastroluodenostomy delivers the gastric contents into the duodenum but otherwise acts in the same way as gastro-enterostomy

I vloroplasty gives similar results

Jejuno tomy makes it possible to feed the patient while the stomach is supposedly at rest but as the

mere introduction of food into the jejunum excites gastric secretion the results of this operation have been disappointing

All of the indirect methods fail in some cases since the pieer is replaced by sear tissue itself subject to breaking down on slight provocation most surgeons believe that a cure is obtained more

frequently by resection

Of the direct methods of operative treatment wedge resection is the simplest method of removing the ulcer but is often followed by recurrence of the lesion. Direct excision of the ulcer is now usually combined with pastro enterostomy. Pylonic spasm believed to be due to the nerve reflex caused by high tion of the branches of the vagu on the lesser curva ture is thus avoided. Therefore increased intra gastric tension is prevented the reflux of duodenal contents is made possible and the incidence of recurrence is decreased

The use of the cautery in the method devised by Balfour for difficult operations on high ulcers is associated with the danger of secondary hamor rhage at the site of the cauterized ulcer. The author has found that ulcers situated near the grouphageal opening can be excised if the lesser curvature is completely mobilized. In his technique, the coronary artery is divided in the left panereaticogastric fold and the distal end together with the lesser omentum is then stripped down along the lesser curvature to the site of the ulcer

Sleeve resection is held to be the ideal resection. method as it prevents the kinking at the pylorus that occurs following wedge re ection. To preserve the normal shape of the stomach the resected piece should be made longer on the greater curvature than on the lesser curvature Castro enterostomy be comes difficult or impossible when this procedure is used but pyloroplasty is an efficient substitute

When there is longitudinal contraction of the leser curvature such as occurs frequently in cases of gastric ulcer the stomach becomes globular and retention results from kinking at the pylorus. This deformity requires subtotal gastrectomy The advantages claimed for gastrectomy in the

treatment of gastric ulcer are that it abolishes gastric function and retention prevents recurrence and decreases the production of hydrochloric acid

Wright believes the postoperative freedom from recurrence justifies resection even when the ulcer is small He states that the risk of the operation has been evaggerated as proved by Mounthan's series of 184 ca es with only 2 deaths. Wright has been un able to substantiate Hurst's claims concerning the postoperative development of pernicious anamia due to the absence of acid in the gastric juice. The resections advocated are the Billroth I and II opera tions or modifications of these

Wright has obtained rapid and permanent cures from partial gastrectoms, which is much better borne by patients with ulcer than by those with carcinoma

In cases of massive ulcer it is impossible to operate without soiling the peritoneum to some extent and there is a special risk in attempting to keep the floor of the ulcer intact by taking slices of the pancreas when adhesions are present. Thorough lavage of the stomach for several days is therefore important except when contra indicated by recent hamor thage

When it is necessary to leave the floor of the ulcer because of adhesions, the peritoneum should be carefully packed off and the floor of the ulcer gently curetted and touched with pure carbolic acid a procedure which prevents the formation of a

pancreatic fistula

In a series of 62 cases in which the author per formed partial gastrectomy for chronic gastric ulcer there were 2 deaths This series does not include 3 operations with deaths which were performed for the arrest of acute hamorrhage since these were emergency measures Of the 44 survivors who could be traced a have died since the operation from meningitis phthisis carcinoma and insanity re The death from carcinoma occurred spectively about one year after the operation which is taken to mean an incorrect diagnosis at operation al though the diagnosis of ulcer was confirmed microscopically

One patient developed regurgitant vomiting requiring entero anastomosis which was probably due to the use of an excessively long jejunal loop patient though greatly relieved still has occasional pain. In another case vomiting occurs about once a fortnight and on \ ray examination food can be seen passing into the duodenal end of the bowel. The natient is in good health otherwise and is able to eat any kind of food. In a other cases there is occasional slight vomiting The remaining 36 patients are in excellent health

The only unsatisfactory results were due to a technical defect in the anastomosis which allows food to pass into the blind end of the bowel where it

accumulates until relief is afforded by vomiting Such a complication can be avoided by making the section well toward the cardiac end and using as short a loop of jejunum as possible without compress

ing the transver e colon Unight believes that considering the extent of

the le ions and the pain and suffering in most of his cases the operation was fully justified by the re E S PLATT M D sults

Black K The Large Stoma Gastrojejunostomy Best M J 1018 11 440

In cases of gastric ulcer the author places the stomach at rest by means of a gastrojejunostomy stoma from 351 to 4 in in diameter This increases

the rapidity of emptying

In the technique of the large stoma gastrojejunost omy the stomach and I junum are held by short bladed stomach forceps only at the ends the bleeding vessels are ligated individually and the tissues are GEORGE & COLLETT M D not crushed

Truesdale P E Pylorectomy J im J in 1018 TC1 TODE

Truesdale briefly outlines the history of state the surgery The first pylorectomy was done by Péan in 1870 and was not successful. As early as 1881 the operation was adopted by Billroth Billroth recognized the great muscular hypertrophy as ociated with cancer of the pylorus and believed that ny loric obstruction from this cause was responsible for one half of the deaths occurring before adhesio a and glandular metastases became factors of m portance Billroth's operations were characterized by implicity and are well known today a the Billroth I and Billroth II methods In 1903 Kocher reported 75 to lorectomies with a mortality of 91 per cent. His method was pylorectomy followed by gastrojejunostomy a procedure in which the much dreaded suture angle of the Billroth operation and avoided In 1905 W J Mayo reported 100 pylorec tomies for cancer of the stomach g by the Bil roth I operation 76 by the Billroth II operation and 15 by the Kocher operation Of the many valuable contributions made to surgical knowledge by the Mayos and Balfour none ranks higher than the work of these surgeons on carcinoma of the stomach In 1906 Rodman was the first American surgeon to adopt pylorectomy in the treatment of gastne

ulcer in the pyloric region Truesdale began his first series of pylorectomies in 1908 In 1913 he was able to report 8 cases in which the Billroth II method was used. All of the patients were still living and well. In this article he reviews a series of 40 pylorectomies with an operative mortality of 5 per cent Thirty of the patients were males. Two were between twenty seven and thirty years of age to between thirty a d forty years 16 between forty and fifty years 6 between fifts and sixty years and 5 between buty

and seventy vears One was seventy eight vear old Thirty patients were operated upon by the Billroth II procedure 6 by the method of gastroduodenostomy and 4 by the Polya oper tion There were operative deaths 1 after the Polioperation and a following a gastroduodenes omy Autopsy in the cases of operative death revealed a rupture of the duod nal stump in one in tance and acute dilatation of the stomach in the other Ten patients have died since they left the hospital Of the 30 patients non living only 1 cannot be traced Twenty eight of these patients expressed them selves as entirely satisfied with the operative result

and their general health

The author concludes that pylorectomy is the operation of choice for vers early cancer near the pylorus and for ulcer in the pars pylorica Gastroduodenostoms when carefully applied is a safe time aving procedure. After gastroduodeno tomy the stomach tube should be employed repeatedly on the slightest evidence of acute dilatation of th stomach In general the Biliroth II operation : s safer and more satisfactory operation

JOHN W ACTON M D

Tenney C F Bancroft F W and Cole L G Gastric Ulcer Pylorectomy Pólya Anasto mosis Surg Clin N Am 1928 viii 989

The authors report the case of a woman sixty six paras of age whose principal complaint was frequent attacks of indigestion. After thorough examination including laboratory and 'r ay assistance a diagno us of chronic cholers sittis with adhesions around the pilorus was made and cholecystectiony was per formed. The pathological diagnosis was chronic cholecystitis. The patient made an uncentralivate or the pathological diagnosis was chronic lockes sittis. The patient made an uncentralivate or the pathological diagnosis was chronic the pathological diagnosis was chronic pathological through the pathological pathologic

erv and was discharged as cured

One year later she returned complaining of gastric
distress. The findings of examination were much the

same as before except that the secondary amemia was more pronounced blood was present in the gastine contents and stools and the gastine by discounting the gastine contents and stools and the gastine by discounting the gastine condition again showed a deformity of the plorus but the condition was considered non malignant by the roentgenolo

At a second operation performed under ethylene anzisthesia after careful preparation with digitalis and blood transfusions a gastric ulcer was found and resection of the pylonic end of the stomach according to the method of Moynihan was done. Moynihan s method begins the resection at the duodenum and proceeds toward the left the anastomosis with the jejunum being started before the pylonic antrum has been excised. This method has the advantage that the beginning of the anastomosis is done in a clean field before the stomach is opened and the clamp remains on the proximal end of the stomach only a short time constriction of the circulation of the stomach in the region of the anastomosis being there fore avoided It is important to bring the anastomosis through the mesocolon so that no complicating obstruction may occur The patient had an un eventful convalescence with prompt disappearance of all symptoms

The \text{ ray findings at both examinations were characteristic of either carcinoma or gastric ulcer. They were nearly identical although a year had clapsed between the examinations. The failure of the deformity to increase prevented a positive diagnosis of malignance.

or minigrancy.
The specimen showed two ulcers one involving all of the coats of the stomach. Between the two liters there was a bridge of hypertrophied mucos which could be differentiated from carcinoma only by microscopic examination. This mucosa contained connective tissue which had contracted drawing the mucos of the greater curvature into the lumen of the stomach. The smaller ulcer was submucosal and add excloped in met the original examination.

CYRIL J GLASPEL M D

Morley J and Roberts W M. The Technique and Results of Partial Gastrectomy of Chronic Gastric Ulcer Brit J Surg. 1928, xvi. 239

The interest of surgeons has been centered chiefly on the technique and immediate mortality of gas

trectomy too little attention being paid to theremote effects of the operation on the general bealth. Extravagant statements as to the frequency with which ulcers become malignant led to extensive resections for chronic ulcers. The fact that the Polya gastrectomy is followed by a smooth convalescence a gain in weight and immediate relief of pain caused it to be the operation of choice. The sacrifice of gastric digestion was not thought to be a senious inconvenience.

venience

However although the Pólya gastrectomy re
lieves the pain and vomiting it is followed in some
instances by a marked tendency toward anzemia
especially in patients who are anzemic at the time
of the operation because of repeated pre operative

hæmatemesis

Several cases of anemia following gastrectomy some with the typical blood picture of permicious anemia have been reported. Hurst believes that achlorhydria is not only a concomitant but also an essential predisposing cause of permicious anemia. Following the I dip a gastrectomy the achlorhydria is usually complete.

The harmoly sis of permisous anamia is believed to be due to bacterial towns produced in the intestinal tract under the conditions favorable to bacterial growth which are present with achlorhydra. Knott found that in 90 per cent of cases with a normal quantity of free hydrochloric acid in the gastric juice the duodenal contents were sterile whereas in sums which had a tendency to be farcal in two gan sums which had a tendency to be farcal in two gan

My agawa found that the pylone glands containing few oxyntic cells extend three tenths of the distance from the pylonus to the cardia. After a transitional area i cm wide there is a large area of funding glands inch in cyyntic cells. The cyyntic cells are located chiefly in the body and central region of the stomach and are scantly in the fundus

proper and the pyloric regions

Morley believes that the Schoemaker modifica

tion of the Billroth I operation is a more physiological form of partial gastrectomy than the I flya gastrectomy. The operative technique is described

ın detail

In forty seven cases in which Morley performed a Foliva gastrectomy for gastric uder there were three deaths a mortality of 6 4 per cent. In five cases in which a Foliva gastrectomy was done for gastro-jejunal ulcer there were no deaths. In sixty eight cases in which a Schoemaker operation was done for gastric ulcer there were two deaths a mortality of 2 o per cent.

Of the deaths following the Póha gastrectomy, two were due to leakage of the magnated end of the duodenum and one was due to postoperative bron to chopenumonia. Of the two deaths following the Schoemsker gastrectomy one was due to pneumonia and the other that of a main of poor phy squemonia of the control of the control of the present of the present

Roentgenographic examination following a Pólya operation shows the barium meal dropping through into the jejunum with practically no retention in the stomach

After the Schoemaker gastrectomy the barum passes through the stomach much more slowly than after the Pólya operation. The picture closely resembles the pormal. In some cases there is even a

normal duodenal can

In the investigation of clinical results following gatterctomy by the F0h3 and Schoemaker methods the patients were questioned with regard to (1) the return of pain or vointing (2) their appetite and (3) their weight record (3) those who could be interviewed personally Roberts cammed the blood of both groups and performed fractional gastine analyses on the Schoemaker group only in the F0h3 are compared to the state of the state of

The results of the clinical and laboratory examinations which are presented in tabular form lesd to the conclusion that the Főlja gastrectomy carnes with it a senious hability to postoperative anomina attributable to achlorhydna resulting from the op ration. The anomina was of the secondary type but in some cases anisocytosis and politocytogis

were present

After the Schoemaker operation the patients are markedly free from evidence of anemia. This type of gastrectomy has a loner mortality than the 1903, operation gives better chincal results and is a simpler operation to perform. It is radical in that it removes the ulect bearing area and the pylonic splinicter and permanently lowers the acidity but it is also conservative in that it leaves a stomnch with

a function approaching the normal
The cases in which Morley performed a Pôlya
gastrectomy for gastrojeunjau lucer are too recent and
too few to warrant conclusions as to the outcome
but the clinical results to date are excellent prob
ably because of the radical reduction of the acidity

Test meals within six months after Schoemaker's gastrectomy showed achlorhydria Chloride esti mations proved this to be due to the absence of secretion rather than to the neutralization of acid after its ecretion. A repetition of the test on six of the achlorhydric patients with the injection of I mem of histamine subcutaneously to stimulate secretion showed a definite increase in chlorides in one and a secretion of acid in three This indicates that the achlorhydria is due probably to a disorganization of the reflex or hormonal relations of the different parts of the stomach rather than to the diminution in the secreting surface. Analyses at longer intervals after the operation showed the secretory capacity to be largely or fully recovered

After the I bly a gastrectomy test meals fail to give conclusive evidence as to whether or not the postoperative achlordydria is to be attributed to neutralization since as a rule only small samples are obtained from the stomach on account of the almost immediate emptying and these contain a consider able proportion of bile which has a relatively high chloride concentration.

Millar T McW A Pedunculated Extragastric Leiomyoma of the Stomach with Hæmorrhag c Degeneration Bril J Surg 1928 XV 313

The case reported was that of a man thut; sees as f age who had been well until six meets previously when he suffered a brief attick of sever pain in the upper abdomen. Since then he had been well until fan neeks before he was seen hy the author when he first felt out of sorts and seemed paier than usual

On the minima of the first day of his illess he had caten a hearty brealist. Two hom bit while at work he noted a vague disconder in the registrium. This disconding raduilly, nored. The patient stated that his stomach felt as the system of the registrium. This disconding raduilly, nored but were bolloomed up with gas I becamen a ethe but did not vornt. Four hours later while straining at stool he has suddenly sured with severe pan in the upper abdomen and fainted. Durny the sett sur hours the pum became increasingly more sever. When the patients physician first saw hm exhours after the onset of the condition definite and its and the disconsistent of the condition of the condition of the condition of the condition of the patients of the condition of the conditio

denal ulcer was made

At operation the abdomen was found filled with bright red fluid blood and a large so 1 yes created was felt in the lesser sag fixed to the posteror wall blood was evacuated. Several large district and all blood was evacuated. Several large district populacianness were found off the discovered. The crit hung by a fixin pedicie from the posteror will of the storanch 4, and below the lesser curvature and almost

opposite the mid point of the latter Total removal of the tumor was impossible be

cause of the dense adhesions to the posterior wall of

the lesser sac

Microscopic sections revealed characteristic less
myomatous areas in the cyst wall with considerable

hæmorrhage throughout

The case was particularly interesting because of
the large amount of intra abdominal hemorrhage
associated with the tumor

STANLEY II MENTREE M D

Dunlop D M Examination of the Gastric Contents as an Aid to the Diagnosis of Carcinoma of the Stomach Edinburgh M J 1918 xxv 497

An analysis of the gastric contents was mide in unnerly three cases. In seventy five it was done by the fractional method in fifteen by Evalds one hour method and in three by examination of the testing juice. The results of the various trisk are presented in tables. The author draws the following conclusions:

f Gastric carcinoma may be diagnosed or excluded in the vast majority of cases by examination of the stomach contents alone

2 The significant findings in the diagnosis of this disease are the presence of achlorby dria lactic

acid blood and evidences of stagnation
3 The absence of free acid and the presence of

lactic acid are found in the majority of cases of gastic carrinoma and such a finding probably occurs in no other condition 4. The absence of lactic acid in gastric contents which show no free acid or the discovery, of free

which show no free acid or the discovery of free hydrochloric acid in large quantities makes the presence of gastric carcinoma improbable 5. The absence of free acid and the presence of

5 The absence of free acid and the presence of lactic acid may not be evidence of an advanced stage of carcinoma

6 Lactic acid found in the stomach is not in

variably caused by the fermentation of the gastric contents. It may be sarcolactic acid produced by the tissues involved by the growth. 7. The Congo red and dimethyl tests for free

hidrochloric acid are not trustworthy as they do not indicate small quantities of free hidrochloric acid

8 When the agent is freshly prepared Gunz berg's test is a reliable indicator of the presence of free hydrochloric acid

9 Uffelmann's test for lactic acid is valueless as it reacts to many other substances in the gastric contents

10 MacLean's test for lactic acid is simple and trustworthy | TRANK DOUGHTY M D

MacCarty W C Early Cancer of the Stomach
J Cance Res arch 1928 x11 1

Terthooks usually describe cancer of the stomach in its clisscal advanced stage not in its carliest stages Small gastine cancers are rarely seen at intopy and during life do not give signs or symptoms by which they may be differentiated from chromic gastine ulder duodenal uleer or sometimes gall bladler disease. In his experience with 5.31,4 static lissons the author has never seen a small static listons the author has never seen a small static listons.

cancer that was not in the border of a chronic ulcer Clinical experience with the stomach is similar to that with the breast Iwenty years ago chronic mastitis was thought to be related to mammars cancer There are two possibilities The chronic inflammatory condition may be a direct factor causing the cancer or the two conditions may be so clo elv associated and so often present together that it is frequently impossible to differentiate one from the other without biops. The first supposition may or may not be true The second is true Between 100 and 1012 breasts removed by the surgeon showed malignant changes more frequently than they howest benign lesions. Since 1912 the benign lesions of the breast have outnumbered the malig nant lessons the clinical difficulties in diagnosing malignancy of the breast have increased 100 per cent the size of mammir; cancers is smaller the

relative number of cases with glandular involvement is smaller and the postoperative longevity is in creased

As it took time to perfect \ ray technique it was not until 1923 that benign lesions of the stomach were found to exceed the malignant lesions By fluoroscopy it is now possible to locate even a small pastricular but we cannot tell whether it is a simple ulcer or an ulcer showing early malignancy Within eleven years 125 per cent of the patients with a diagnosis of early carcinoma in chronic gastric ulcers have died of carcinomatous recurrences but none of those with a diagnosis of extoplaser are known to be dead of cancer al though 7 5 per cent of them are dead of unknown causes Of all the chrome gastric ulcers resected or excised and studied at the Mayo Clinic in the last eleven years 9 7 per cent have shown either second ary cytoplasia alone or in combination with the stage called early carcinoma

These facts do not show that cancer arises in gastine ulcers but they demonstrate that chronic gastine ulcer is the common site of our smallest cancers. Until we find some serological or other test for the earliest stages of cancer early cancer of the stomach cannot be recognized without exploration and micro copic examination of chronic gastine ulcers

Poate II and Inglis L. Canglioneuromatosis of the Alimentary Tract Bril J S g 1928 vii

The authors report a case of ganglioneuromatous of the alimentary tract in a man thirty exarts of age. The patient was admitted to the hospital complianing of flatulence fullness and discondition in the epigastrium and pain behind the right shoulder. There was a bistory of follows and you in the right patient was constituted. Combiguition had developed over a period of two cars?

I hysical examination revealed nothing abnormal other than a peculiar fullness in the right side of the ablomen There was no benderness. Barium meal examinations of the stomach and duodenum showed signs of chronic duoden'l ulcer. No further examination of the intestinal tract was made

Operation revealed a chronic ulter in the duode imm and a large oft mass distending the ca.cum and ascending colon. The mive was resected a lateral massion in selection the time and transverse colon control of the colon control of the colon colon

Gross examination of the external surface of the specimen which consisted of the terminal ileum the appendix execum and ascending colon showed no abnormality but when the specimen was opened two firm nodules about 1 cm in diameter were found 1 projecting 4 cm into the lining of the ileum

at a point 3 cm from the elecencial juncture. The modules were covered by apparently intact mucous membrane. The appendix was uninvolved. The account contained two irregularly, rounded tumor masses, 4 and 15 cm respectively in diameter. Apart from these masses quite two-links of the wall of the excum was diffusely thickened by neo-plastic tissue averaging 1 cm from mucous to serous surfaces. The ascending colon contained the man growth which extended 20 cm up the colon and consisted of lobulated tumors involving about mine-tenths of this portion of the bowel. The three largest masses measured about 10 by 5 cm and procured from 3 to 4 cm into the lumen. The mucosa

was apparently intact
Microscopically the tumors consisted chiefly of
fibrocellular tissue in which little resemblance to
fibrocellular tissue in which little resemblance to
nerve sould be detected. In places they were composed mainly of enlarged and abnormal nervtrunks. They were situated within the circular
muscle of the bowel in the region of Meissners a
plerus. Some of the growth extended into the
muscularis mucosa: Oraglion cells showing de
muscularis mucosa: Oraglion cells showing de
The mucosa incharace showed a market influenza
tory, reaction in which a large number of ecosiophiles
were conspicuous. The inclusion of adpose subsisse in the growth was evident. The thickened walls of
the vessels were either inflammatory or of neo-

plastic origin

Roman and Arnold have suggested that the tumor
is made up of nerve fiber cells of Schwann the
inference being that the tissue is epiblastic instead
of mesoblastic in origin as has been previously be

lieved

The article contains a plate showing the gross specimen and five photomicrographs of paraffin sections stained with harmatoxylin and cosin

I EDWIN KIRKPARICK M D

Warren R Cancer of the Intestine Lancet 1928

ccrv 491

This report is based on sixty nine cases of cancer of the bowel excluding the rectum in which the diagnosis was verified at operation. The voungest patient was a boy fifteen years of age and the leisten was between the crecum and the hepatic flexive in twelve cases in the transverse colon in four in the splenic flexive on twelve cases in the transverse colon in four in the splenic flexive on twelve cases in the thransverse colon in four in the splenic flexive on twelve distributions.

One of the symptoms most suggestive of intestinal cancer: irregular action of the bowels of recent origin in a middle-aged or elderly person who previously has had normal bowel action

In fits, seven of the cases reported preliminary.

In fits, seven of the cases reported preliminary
drainings by colosiomy or lateral and one. In the twelve others the operation was
primary ecusion and anastomosis for a Colostomy is the carcium. End to end anas
tomosis has given the author better results than the
lateral method.

Slesinger E G An Enteric Cyst of Large Size in a
Boy Brit J Surg 1928 Xvi 333
The case reported was that of a boy seven jens of

age who had had attacks of grapping generalized abdominal pain associated with comiting at intervals of about six months for four years. Under treatment with rest and starvation he recovered

from these attacks in three or four days

Examination revealed an abdominal tumor abiti

to the left and below the umbilious

At operation the tumor was found to be an enterceys situated about 8 it above the decorred valve. The intestine was resected with the mass and seend to-end anastomosis was done. Good recovery followed.

The article contains a colored illustration of the resected intestine and attached cost

attached cyst CARL R. STEINE, M D

Cutting R A The Relative Mechanical Strength of Enterostomies Performed with and without Clamps An Experimental Study Arch Sur 2028 XVI 6.3

The author found that weight for weight the jejunum of the female dog is slightly stronger than

that of the male dog

The strength of enferostomes performed by bolchamp and clampless techniques was about one third that of normal intestine immediately after dienterostomy, then progress self-decreased for their days then rapidly and progressively increased by to or executing the strength of normal use x visture of the strength of the most vertical to the strength of the united without on the eleventh day and again increased on the wealth day.

Enterostomies performed by either in the showed marked variations in strength on all pot operative days up to and including the tellibus Even though the operative technique was technique was technique as a same in all cases variations exercising or same in all cases variations exercising or four days and variations of from go to 75 per cent we recommon throughout the entire twice days.

ARTHUR L. SUREFFLER MD

Hurst A F and Stewart M J Jejunal and Gastrojejunal Ulcers I Etiology and Pathol ogy II Symptoms and Diagnosis Lanct 1928 CCV 742 805

The authors emphasize that jejunal ulcer is a frequent and dangerous sequel of gastrojejunestom; particularly when the anastomosis is performed for duodenal ulcer. They are of the opinion that da incidence is much greater than is generally believed

In a consecutive series of 10,300 autoposes priformed at Leeds there were 131 cases in which gastropionostomy had been performed for a wor malignant levion. In 46 cases in which death had occurred within ten days after the operation there was no gastropional ulceration. Among 41 cases

in which death had occurred from ten days to two months after the operation there were 2 cases of acute terunal ulceration and I case of acute gastro sesunal ulceration. In 2 cases in which death had occurred two and six months respectively after the operation there was no secondary ulceration Of 42 cases in which at least nine months had intervened between the operation and the patient's death jejunal or gastrojejunal ulcers were found in 52 per

Regarding the recurrence of jejunal ulceration following conservative surgical procedures. Hurst and Stewart state that this was found 4 times in 2 cases in the Leeds series and 8 times in 44 cases in the New Lodge series The presence of free hydro chloric acid and infection (focal and local) are men tioned as factors concerned in the nathogenesis of these lesions

In about 20 per cent of the cases the gastroje junal or jejunal ulcer appears to develop imme diately after the operation. The symptoms are simi lar to those of the original duodenal ulcer but the time of onset of the pain is more irregular and is The pain is less generally earlier after meals completely relieved by food or sodium bicarbonate and is usually felt on a level with the umbilious generally to the left of the midline. Comiting is rare. Hamorrhage occurred in 21 of 43 cases of anastomotic ulcer. In only 1 of 22 autopsy cases was it the immediate cause of death. In 81 per cent of another series occult blood was found in the stools Examination of the gastric contents in 38 cases showed by perchlorhy dria in one-third and high normal values in 40 per cent despite the gastroje runostomy. While the majority of anastomotic ulcers are difficult to demonstate roentgenograph ically it is frequently possible under the fluoroscope to palpate a point of tenderness strictly localized to the stoma or to some point within the first 4 in of the efferent jejunal limb

In conclusion the authors state that the pos sibility of jejunal ulceration should always be con sidered when symptoms develop after gastroje junostomy In the differential diagnosis the lesion must b di tingui hed from persistence or recurrence of a duodenal or gastric ulcer chronic appendicitis gall bladder disease and carcinoma supervening upon an unhealed gastric ulcer or originating at the JACOB M. MORA M.D.

Robertson W E Jejunocolic Fistula J im M 1s: 1928 xc1 1250

The author states that up to 1924 the Mayo Clinic figures showed 6 214 gastro enterostomies for both duodenal and gastric ulcer. In 83 (1 41 per cent) of the cases a marginal ulcer developed. Ten (11 36 per cent) of the 58 patients later developed a) junocolic fistula Therefore the incidence of jejunocolic fistula in a series of 6 214 gastro enteros tomies performed at the Mayo Clinic was o 16 per cent and the incidence of marginal ulcer 1 41 per cent.

Gastrojejunal ulcer is always persistent and has a tendency to periorate hence its relation to the formation of fistulous tracts Many marginal ulcers escape notice in general practice unless they give rise to fistula Although improvement in the opera tive technique including the abandonment of non absorbable suture material has materially lessened the incidence of marginal ulcer and therefore of gastrojejunocolic fistula it is wise to regard every case in which a gastro-enterostomy has been done as a potential case of marginal ulcer or fistula

According to Moore and Marquis the causes of marginal ulcer are infection from the primary ulcer some other intra abdominal lesion or a distant focus of infection trauma at operation the use of non absorbable suture material and persistent hyper chlorhydria. The ulcer is usually small and may he mucous penetrating or perforating. The most frequent complication is a fistulous opening into the From the \ ray standpoint the indirect signs are gastric retention enlargement of the stom ach hyperperistalsis gastric spasticity and duodenal retention. The direct signs are deformity about the stoma narrowing and irregularity of the jejunum a scant flow through the opening and fivation at the site of the anastomosis

Verbrugge distinguishes four stages in cases of fictula

The development of the primary ulcer

A period of relief following gastro-enterestomy This ranges from one week to ten years but as a rule is from six months to a year. In the Mayo series the minimum was three weeks and the maxi mum ten and a half years

3 A period of progress of the marginal ulcer Fistula may develop without ulcer formation

The fistula period ranging from two and a half months to twelve years. In the Mayo cases it ranged from nine months to five years and four months \mong the most common signs are diar rhora which is more or less sudden in onset and sometimes lienteric Loss of flesh is constant Pain nausea foul eructations and comiting are variable In the majority of cases there is pain Dehydration occurs when the condition has been present for some time Apparent obstruction of the colon in a pa tient who has had a gastro-enterostomy should always suggest the possibility of fistula ANTHONY F SAVA M D

Bargen J A Ulcerative Colitis J Am M Ass 1028 KC1 1176

The evidence at hand indicates that chronic ulcerative colitis is an infectious disease due to a dinlostreptococcus of characteristic morphological and biological properties. That it is a definite disease entity is no longer open to question

The author emphasizes the importance of a proctoscopic examination in all cases of rectal bleeding and of careful roentgenological investigation with a barrum

enema in suspected cases of ulceration of the colon since by such procedures the disease can be distin gui hed from other types of colonic ulceration and treatment can be instituted early with possible avoidance of some of the serious complications

The treatment of chronic ul ecutive coluin is of interest to all physicians. It requires patients and careful observation over periods of months. If the ratients is not kept under constant sur-relimence he is apt to drift from one physician to mother and may centually convuls a quack. The treatment should be primarily medical Surgers should be limited to expensive the case of priteins who are failing progressive the case of priteins who are failing progressive whise condition shows no improvement after long continued medical treatment.

Mckendrick J S Kerr J M M and Young A Discussion on Diverticulities Glagon, M J 1928 ex 193

Mckenners discusses diverticulitis from the general practitioner's point of view

Divertice loss with tis terminal stage of divertic cultists in oat an uncommon divested. Springs found divertically press in time to present of cases in which and \textity are set in the present of cases in which all \textity are set in the present of these after a barrium metal in only 12 per cent of these different or the present of the present of

Diverticula develop chiefly in the descending colon and sigmoid. The diverticular state of the bowel is undoubtedly due to bacterial invasion of the inte tinal wall. The primary focus of infection may be an apical abscess spondylitis or a septic condition anywhere in the body. The streptococcus harmelyticus has been found in the farces. The I rat shows the colonic wall to be irregular in all or a part of its circumference. There is interference with haustration and segmentation and the bowel may become spastic. The irregularity due to weak ening of the walls gradually gives rise to small h raisl protrusions which at first are very minute and situated between the longitudinal bundles at the entrance and exit of the small blood vessels Thee small pouch like sacs or protrusions are true hernix As the result of pressure or constipation the muscular walls of the diverticulum gradually di appear until the hermal sac is formed by only the mucosa and serosa. The diverticula are frequently present in the a mendices ep ploter. They vary greatly in number. Their size varie according to the d ration of the pathological condition. At first small they gradually enlarge from internal pressure until they resemble Meckel's diverticulum presence of these diverticula cau es the condition known as diverticulosis Facal matter firds its way into the pouche and facoliths are formed Foreign

bodies have been found in the diverticula. Divert culitis is preceded by the diverticular state and diverticulosis

Certain pathological changes may take place as fully developed deverticulum. In acute cutral, condition often develops which may leaf to the formation of adhesions to intelligence and intelligence and the control of the control of the control of an absect with above to the bladder or agree or these holders or anset or times or the formation of an absect with above to the bladder of any angular control of an above of the control of a pathologophic or and the control of a pathologophic or a more chronic condition may develop a gree a formation of the control of a pathologophic or and the control of th

The disease is most common after the fiftieth year of age and occurs more frequently in men than it women Most of the subjects are obe e and con stipated In the predicerticular sta e there is often pain in the abdomen usually below the unbows and on the left side which is not relieved by d'up recurs often and is associated with constipat or and flatulence Diverticulitis is characterized by con stipation pain in the left side terdetr st ngd v of the rectus muscle distention frequert mictar " fever leucocytosis a d in the romigerogr m typical irregular palisade-line appearance of the sigmoid with pouches or crescer is along the ides of the bowel The free rarely contain blood ther rupture the puture is that of pentory'is The pall able tumor mas is frequently diamesed as a carrinoma of the boxel

In the treatment the mouth should be kept clear the teeth attended to and all sources of your teeth attended to and all sources of your character copast ting of mailed milk and an abus dance of majbed and seved vegetable and dance of majbed and seved vegetable parafin as the parafin of the seven and the parafin of the seven and all majors of the believen it waste. A few ourse of olive oil injected each might into the lower boad and a salme entern about every third ds, are beneficial When signs of obstruction develop a co-our short currenting operation or resection should be short currenting operation or resection should be

KERR discusses the clinical man festations of diser ticulities in women. He states that the condition is encountered in both an acute and a chronic form

One of here first cases of discreticulities was operated upon under the disappons of ovarian certifier operated upon under the disappons of ovarian certifier operating the abdomer here concluded that he was dealing with a malignant tumor of the hosel. But abdomen was therefore promp is closel and the uniavorable prognosis given. Several evaluation has patients physician reported that applications are provided that the provided provided that the provided provided that the provided provided the color under the impression he was dealing with a carcinoma.

herr reports a case of infected discribulum which produced chronic inflammation with theken ing of the sigmoid and rectum simulating a rial goan tumor a case of large perirectal effu ion simulating an ovarian tumor and a case of pelvic abscess due to diverticulitis

In many cases of diverticulitis recovery results from bed rest regulation of the bowels and a suit able det. In others surgical treatment is necessari Surgical triatment is much simpler and safer in the female than in the male because in the female drainage can be established through the posterior vaginal forum.

You reports the case of a woman fifty three ears of age who sought treatment because of s my lons of pattal and increasing intestinal obstruction Frainmation resuled a tumor in the lower part of the abdomen on the I It side A diagnosis of car tomorations structure of the signoid or pelvic colon was made Operation revealed a large fixed mass involving the signoid loop and swollen appendices epiploice. A colostomy was performed. Two vestifies the pattent was quite well and had gained weight. Eleven years later she was stilling ood health. Cases of intestinal diverticuloss are divided into

the following groups
Group t Cases of simple diverticulosis with little
or no infection and no symptoms
As a rule this
condition is overlooked entirely. A course of sys
tematic colonic lavage will keep the pouches open
and wash out the farcal impactions

Group 2 Cases with a more advanced stage of the same pathological changes with infection super tening in the diverticula

Croup 3 Cases in which the infection has passed beyond the walls of the diverticula and a local or general perioditis pelvic abscess salpingitis fistular or abscesses may be present. The infection may spreal retroperitoneally and cause a perioditude abscess.

(roup 4 Cases with progressive development of partial to complete intestinal obstruction with one or more large diverticula

Cropp 5 Cases in which a diverticulum not only simulates a carcinoma of the sigmoid but may be the antecedent stage of cancer. In the opinion of the Mayor carcinoma develops in 25 per cent of cases of diverticultis.

Muter reports that in a series of 500 autopsies diverticula were found in 34 cases and in practically ever instance the site of the lesson was the sigmoid hypronimately 1 patient in 8 over forty five verts of age had diverticulose of the large bowle.

For \ ray examination Mailer regards the barrum enemy as the method of choice

JOHN W NURLE M D

Bargen J A Chronic Ulcerative Colitis Associated with Malignant Disease 1rch Strg 1928 vin 561

<

₹,

The term chronic ulcerative colitis has come to mean a definite disease entity which presents char act istic clinical pathological procto copic and toentgenological changes

The disease is a severe infection of the colon and carnes with it serious complications and sequelx

such as polyposis perforation stricture hamor rhage perirectal fistula and abscess arthritis and malignancy

Of the patients with chronic ulcerative colitis who presented themselves at the Mayo Clinic in the period between 1916 and 1927 inclusive malignant disease was superimposed on the colitis in 20

The paucity of reports in the literature on malig nant disease of the colon developing in persons with chronic ulcerative colitis is noteworthy emphasized the relationship of chronic ulcerative colitis and polyposis and suggested that malignant disease may follow these conditions Hewitt and Howard made similar observations Wheeler be heves that polyposis occurs as a result of chronic ulcerative colitis Helmholz suggested that Virchow and Rokitansky may have described the terminal stage of chronic ulcerative colitis Soper's work on multiple polyposis of the colon has been illuminating At the Mayo Clinic the development of polyps has been noted proctoscopically in the course of progressing as well as healing chronic ulcerative colitis Logan found polyps in 19 of 117 cases Later the author noted them in 6 of 200 cases

The various reports in the literature the frequence with which polyposs has occurred in the series of cases of chronic ulcerative colitis at the Mayo Clinic and the simultaneous occurrence of polyps and carcinoma in the diseased colon suggest that in some case of malignant disease of the colon the sequence is (1) chronic ulcerative colitis (2) multiple polyposs, and (3) malignant disease.

Malignant diseases supermoposed on chronic ulcer attive colitis has a grave prognosis. Whenever a sud den change for the worse is noted further procto sc.pic and roentgenological investigations should be made. Operation vields discouraging results even if the malignant condition is discovered fairly early. Pherefore medical treatment must be considered. The only hope it seems is preventive treatment that is the cure of the colitis and the removal of the poly so

MacFarlane J A Submucous Lipoma of the Colon Report of a Case 1rch Surg 1928 x 11 6

The author reports a case of submucous lipoma of the colon in which operation was performed following a diagnosis of carcinoma. The rarity of lipoma of the colon is evident from the fact that according to Moore onli 6 as es were found in 44 654 opera case of the colon of the colon of the colon case of the colon of the colon of the large found in the colon of the large found that the colon of the poly variety should be regarded as malignant until they are proved beingn.

ARITUR L SHREFFLER MD

Koster H and Weintrob M The Blood Supply to the Appendix 1rch St g 1928 xx11 577

This article reports a study of the arteries of 100 human appendices normal and pathological which

were removed from persons in the first to seventh decades of life inclusive. The appendicular artery was injected with a barium sulphate gelatine sus pension of known viscosity The apparatus for

making the injections is described in detail Macroscopic observations on the blood supply to

the normal appendix show that the arterial free is remarkably constant in its architecture. The blood supply is divided into two layers the deeper being the richer There is absence of a distinct blood supply to the mucosa. The appendicular branches of the second third and subsequent orders have a remarkable corkscrew and spiral character. The richness and profuse anastomosis of the blood supply of the appendix are striking

Inflammations of the appendix are consistently paralleled by changes in the course and character of the blood vessels. When the pathological changes in the blood supply have progressed to vascular obliteration complete return to normal is hardly

to be expected

Farr C E and Brakeley E Appendicitis in Chil An Analysis of Cases from St Mary a Free Hospital for Children and the First Sur gical (Cornell) Division of the New York Hos pital Surg Clin A Am 1928 vin 1193

JOHN W NIZUM M D

Appendicitis is usually considered to be less fre quent in children than in adults but no doubt a large number of minor attacks in infants and young children are entirely overlooked or incorrectly

diagnosed In the young a crippling of the appendix due to abnormality of its position and bands and kinks around the cacum not of inflammators origin is relatively common This condition should not be confused with chronic appendicitis due to definite inflammation of the appendix. In examinations of the appendix in children at operation and autopsy a high incidence of serious involvement has been found In many instances this involvement occurred

with few or no clinical signs

The diagnosis of appendicitis is more complicated in the cases of children than in those of adults be cause of the difficulty in the former of eliciting an accurate history Appendicatis must be differentiated from simple colic, pyelitis intu susception cyclic vomiting tuberculous peritonitis and retroperi-toneal lymphadenitis. It is best to advise operation whenever there has been an attack at all suggestive of appendicitis

The progress of appendicutes is very little more rapid in children than in adults Examination of a small child or infant is best done while the patient

15 asleep

In a review of 2 series of cases of appendicitis in children totaling nearly 900 cases the authors found that the condition occurred with about equal frequency in girls and boxs. Acute appendicitis was most common at the fourteenth year of age and chronic appendicitis most common at the fifteenth year The mortality was 59 per cent in one series and 7 5 per cent in the other All of the dea hab t I were due to toxemia from spreading peritoritis. The average interval between the appearance of the symptoms and the operation in the 2 senes was two and seven tenths and two days respectively \ mail occurred in all except 3 cases A cathartic had been given in very few instances

In the acute cases the mortality depended chelly upon (1) the severity of the attack (2) the time at which operation was performed and (3) whether or

not a cathartic had been given

In a series of cases the McBurney morsion was used about twice as frequently as the right rectus incision and in the other series the right rectus in cision was used about twice as frequently as the McBurney incision The right rectus incision is to be preferred as it gives better exposure and allows more complete abdominal exploration

Of the cases in which drainage was necessary in the first series rubber dams and eighteite drains were used in 75 per cent. In the second eres the Mikulicz type of drain was used most frequently

Chronic ca es made up 16 and 25 per cent respec tively of the total number of cases in each senes In the chronic cases in the first series there was i death and in 10 per cent the appendix was norma-In the chronic cases in the second series there were no deaths and in 5 per cent the appendix was normal. In some of the cases in which micro corie ex mina tion showed the appendix to be normal there were adhesions kinks or concretions which accounted for the symptoms Complications we e pr ent in 23 per cent of the ca es

In approximately 65 per cent of the cases no perforation had occurred yet in 17 per cent of these

drainage was established

Abscesses were found at operation in 12 per cent of the cases of the first series and 17 per cent of those of the second series. In the first series the mortably in the cases with abscess was 8 per cent and in the second series 2 per cent

In the first series spreading peritoritis developed in 18 per cent of the ca es and was responsible for a mortality of 42 per cent. In the second series it developed in 16 per cent causin, a mortality of ,

per cent

In the first series the most common complicts tions besides peritonitis and abscess formation were wound infection and pneumonia and series wound infection and pelvic abscess

The incidence of sequelæ was about the same in both series The chief sequela was postoperative

CYRIL J GLASTEL M D berma

Bancroft F W Acute Appendicitis with a Reler ence to the Advances in Treatment During the Last Ten Years and the Possible Progress for the Ensuing Ten Years Surg Chin Y Am 1928 1 1 977

Bancroft compared the mortality and complica tions of cas's of acute appendiculas treated to 1917 and 1927 to determine what advances have been

made during the past ten years and what improve ment we may expect in the mortality and morbidity statistics in the future

The mortality was practically the same in the two series namely 4 per cent. It averaged o 8 in cases without a peritoneal reaction and 17 per cent in cases

with acute diffuse peritoritis

The first advance made during the last ten years was a decrease in the incidence of postoperative herma in cases in which drainage was established This was accomplished by suturing the peritoneum about the drain and leaving the remainder of the wound wide open but loosely packed with gauze a procedure which helps to prevent sloughing of the fascia. The formation of herma is favored by poor musculature and lowered resistance

The second advance was jejunostomy for me

chanical or paralytic ileus

The third important step was the intravenous or subcutaneous use of hypertonic saline solution for obstruction

During the past ten years there has been no marked decrease of the mortality in cases of pen-

tonitis or abscess For the reduction of the mortality it is necessary that physicians diagnose appendicitis early and refer cases immediately for operation. An expert ances thetist trained to induce either general or local anxithesia should always be at hand for emergency cases A duodenal tube inserted through the nose into the stomach or duodenum at the time of opera tion will eliminate vomiting and peristalsis thus helping to control the spread of infection Supra pubic drainage of the cul de sac through a small incision prolongs the operation very little and is of value especially in cases with pelvic collections The use of hypertonic saline solution for ileus and repeated transfusions for sepsis will help the patient to overcome toxemia

The abdominal incision of choice is still disputed The McBurney incision has the disadvantage that it does not afford a satisfactory exposure for difficult dissection un ess the surgeon is fully acquainted with the various methods of extending the incision The right rectus incision permits better exposure of the cerum and appendix but frequently trauma tizes the deep epigastric vessels destroys the nerve supply of the rectus muscle and renders dramage faulty by allowing the tube to cross the terminal ileum In the cases reviewed postoperative hernia was more common when the rectus incision was used than when the McBurney incision was em ployed In general the McBurney incision is re commended

When the appendiceal stump is inverted care should be taken to ligate a small vessel which travels along the execum to the base of the appendix thus preventing secondary bleeding into the bowel. If the creal wall is indurated no attempt at inversion should be made

Cigarette drains are preferable to tubes as tubes are more rigid and seem more prone to create

necrosis with the formation of a facal fistula Two corrette drains are used and one is removed at the end of twenty four hours since after that length of time drainage will occur in the tract adjacent to the remaining drain

After the operation the author's patients are placed in a high Fowler position and given tap water by rectum If a duodenal tube is in place they are encouraged to drink water The occurrence of vomiting when the duodenal tube is in place is evidence that the tube is occluded. During the first forty eight hours the author gives enough morphine to abolish pain and diminish peristalsis

CYRLL I GLASPEL M D

Moore A B Diseases Affecting the Distal Half of the Colon J Am M Ass 1928 sci 1094

Most diseases of the colon when advanced give rise to pronounced and diagnostic roentgenological sions. Early lesions are less emphatic in their manifestations less easily discovered and more difficult to distinguish from each other than equivalent lesions The stomach is comparatively of the stomach small and can be inspected from every angle. It has definite motor activities which are altered by dis ease, and even minute deformities in its contour are usually significant of disease. On the other hand the colon is many feet in length and is difficult to study from different angles It seldom evinces any definite motor phenomena during the remod of examination and small irregularities of contour are likely to be meaningless. However some of these handicaps can be offset and the diagnosis of colonic disease made more efficient by active cooperation of the roentgenologist proctologist and clinician

Among the roentgenologically demonstrable dis eases that affect the distal portion of the colon from the splenic flexure to the rectum the three most common are diverticulties cancer and ulcerative colitis Of much less frequent occurrence are be nigh tumors cicatricial strictures tuberculosis and

Hirschsprung s disease

Diverticula occur in every part of the alimentary canal but are found most frequently in the colon especially in the distal half They are found in approximately 5 per cent of all patients examined with the \ray In most cases the sacculations are few without symptoms and without clinical significance Often especially in the sigmoid they are numerous and become inflamed-diverticulitis and peridiverticulitis. The inflammatory thicken ing produces a corresponding narrowing of the barium filled lumen of the bowel. The margin of the narrowed lumen is likely to be serrated and if a few diverticula which appear as round or oval shadows projecting from the lumen are also visible the diagnosis can readily be made. If no diverticular shadows are manifest the appearance may be difficult to distinguish from that of colonic spasm cancer or adhesions

Cancer is rather common in the distal colon. Its principal manifestations are a narrowing deforming

defect in the barium shadow with or without ob struction to the enema Scirrhous cancer often encircles the bowel producing the stenotic so called napkin ring form and is easily recognized Medullary cancers grow rapidly ulcerate deeply and deform the lumen grossly. It the site of the defect a mass can usually be felt

Chronic ulcerative colitis usually begins in the distal part of the bowel and progresses upward When it is well advanced the affected bowel when filled with the barrum enema is narrow devoid of haustra and smooth and pipe like or deeply con stricted at intervals so that it resembles a string of sausages Frequently the colon is contracted ion gitudinally the splenic flexure being thereby drawn

kraske H Operation for Cancer of the Rectum (Zur Operation des Mast larmkreb es) Beite klen Cher 1928 cvlit 408

The purpose of this article is to show that in suitable cases the sacral operation yields as good permanent results as the present day radical com bined methods The modification of the classical Kraske operation used at the Freiburg Clinic is as follows

With the patient in the prone position a V shaped skin incision is made along the borders of the sacrum When amputation is to be done the incision is extended downward toward the anus and the flap of skin and fat is turned upward. The coccyx and sacrum are then resected the rectum is exposed the abdominal cavity opened the sacral cavity cleaned out and the rectum pulled down and re sected as usual Only when the proximal loop is short is it sutured circularly Otherwise it is drawn through and after the operation is dilated with bougies The peritoneum is closed only if the su turing can be done easily Adhesions form so fast that there is little danger of peritonitis

For from forty eight to seven two hours after the operation the wound is loosely packed with sodoform gauze The skin suture is usually omitted as the flap falls easily into place. If the intestinal stump is short it is sutured into the left upper angle of the incision and later closed with bandages If the stump is long an incision is made in the gluteus maximus at the level of the left posterior superior spine of the ischium a speculum is passed through the muscle into the operative wound and the closed stump is drawn through the speculum so that it does not come into contact with the muscle and is then sutured to the skin

After this operation there is absolute muscular closure in the standing position. In the sitting position the anus opens by the pressure of the body

and spreading of the legs

In a total of 500 cases of rectal carcinoma treated in this was at the Freiburg Clinic the operative mortality was 20 per cent Recurrence developed in 45 per cent and a permanent cure resulted in 25 per cent WASSERTHUEDINGER (Z)

LIVER, GALL BLADDER, PANCREAS AND SPLEEN

Wilkle A L The Significance of Hepatitis in Relation to Cholecy stitis An Experimental Stud B # J Surg 1929 XVI 214

In the experiments reported which were per formed on rabbits the gall bladder was discreted from its liver bed separated from the liver by the interposition of omentum and fixed in its new postion by a suture. In one group of animals the cistic duct was ligated to exclude all lymphatic and blood connections between the gall blad ler and its bed care being taken not to include the vessels. In another group the cystic duct was left intact it the end of four months the animals which were wed as controls showed no ill effects from this opera tion and when they were killed necrops; showed to definite pathological changes in their gall bladders.

In the experiments on the remaining animals prepared as described and on controls without separation of the gall bladder from its liver bed streptococci from human cystic lymph glands drain ing diseased gall bladders were injected in small numbers for six or seven weeks and the animals were

killed at the end of four months

In both groups of experimental animals-thou with and those without ligation of the cystic ductmarked cholecystitis resulted but the liver substance remained normal

In the controls nathout separation of the gall bladder from the liver the moculation produced cholecystitis with marked hepatitis The author draws the following conclusions

There is experimental evidence that the intra mural gall bladder lesson in cholecystitis precedes the common liver changes in that disease

The infecting organism probably reaches the gall bladder wall by way of the blood stream The article contains seven photomicrographs

J EDWIN KIRKPATRICK, M.D.

D amond J S The Value of Routine Estimations of Blood Bilirubin With a Report of 567 Cases Including a Group of Unrecognized Toxic Hepatitis 4m J 3f Sc 19 8 clxxvi 321

In the latent state of acterus before evidence of chinical jaundice has appeared most information is obtained from an estimation of the blood bilirubin In a routine examination of chronic ambulators patients with symptoms of digestive and nervous disturbances a group of twenty nine were found in whom hepatic derangement was indicated by a high blood bilirubin value corresponding to the latent stage of icterus This condition represent a clinical entity which may be designated as hepatic toxemia the result of chronic hepatitis It may possibly te

regarded as the precursor of chronic hepatic circhosis Thirty eight cases of cephalic and abdominal migraine were found to give high bilirubin readings in the latent stage pointing to hepatic dysfunction

as a contributory factor to this disorder

In the large group of cases of cholehthiasts and cholecystus the test is of value only during the acute bilary attack when it serves to differentiate the attack from other types of abdominal colic including tabetic crises and anging pectoris

SAMUEL KARN M D

Fulton W. S. and Sheppe W. M. Actinomycosis of the Liver Virginia M. Month. 1928 lv. 443

The authors state that so called primary actino mycosis of the liver is rare. Its incidence in the United States is estimated at less than 0.7 per cent.

This stricle reports a case of 1 olated actinomy, costs of the liver in a white woman thirty four years of age who gave a history of attacks of epigastine plan occurring over a period of two and a half vears. The pain was associated with belching and flatulence and was followed by deep jaunditice. Removal of the appendix had failed to give relief. At one time the appendix had failed to give relief. At one time the games were greatly swolkin for three weeks following guessive expertagly swolkin for three weeks following the strict of the stric

Examination revealed an indefinite mass in the epigastrium and enlargement of the liver Labora tory tests showed a secondary anamina and a leuco cytosis of 13 800 but were otherwise negative

Exploration revealed a large liver with a solid gravity yellow mass the size of an orange in the middle lobe Sections of the tumor mass showed numerous small yellowish gray nodules of pinhead size sharply demarcated from the surrounding liver substance which were filled with poly morphonuclears and characteristic actinomy cotic organisms.

The patient made an uneventful recovery and was discharged on the eighteenth day after the operation following thorough potassium iodide and deep \ ray

This case is cited as supporting the theory that infection enters by way of the gastro intestinal tract and reaches the liver by way of the portal vein Sanata William 19 Annard Markets MD

Boyden E A An Analysis of the Reaction of the Human Gall Bladder to Food Anal Rec 19 8 xl 147

I study of the reactions of the gail histoders of therally four normal persons to a standardized fix meal is reported. Cholecystograms were made (4) during the fasting state (2) two four eight techeand statem minutes after an egg 30k cream meal and (3) every fix minutes for an hour or more thereatter.

Filteen hours after the oral administration of the

dye the gall bladders of the fasting subjects were not quescent but either filling or contracting. Psychic stimuli such as the sight or smell of food caused their quick evacuation.

Following the inhibition of the fatty meal there was a very short latent period of contraction. Within two minutes after the food entered the mouth the gall bladder showed a marked diminution of volume

This probably corresponds to the latent period of one minte after the entrance of egy yolk into the duodenum which was established by McMaster and Elmann experiments ondogs. The initial diminution in the volume of the human gall bladder is greater during the first two minutes than in any subsequent two minutes sureraging 5 t ccm.

Following the first two minutes of activity in the average case there was a two-minute pause preceding the pincipal period of discharge which averaged thirty two minutes. During the period of principal discharge the gall bladder was reduced approximately three fourths of its volume. Therefore during the first part of a meal a large amount of concentrated bits is poured into the disodenum and there is a consequent increase in the flow of pancreatic juice. This observation alone is sufficient to prove that the human gall bladder is a storage organ directly related to the process of digestion.

to the process of digestion. Following the first phase of contraction the gall bladder is generally quescent for a short period varying from five to forty free minutes. Then comes the second phase of contraction frequently followed contraction until eventually the organ is emptted. The rate of emptying varies greatly in different persons and is twice as rapid in females as in males It has no relation to the motility of the stomach or intestine.

With regard to the regulatory action of the spinneter mechanism at the outlet of the common duct the author concludes that the resistance of the spinneter drops simultaneously with the ingestion of food Approximately one minute later the gall bladder begins to contract About two minutes after the ingestion of food the resistance offered by the spinneter suddenly increases until it is greater than the force exerted by the gall bladder. Subsequent phases of contraction are accounted for by inter-phases of contractions are accounted for by inter-food and the subsequent of the subseque

When hot bacon was thrust before the noses of eleven fasting students it was found that eight of eleven fasting students it was found that eight of the pall banded and the students of a c cm of bile from the pall bander during the students of smelling. The imbibition of cold water caused of smelling. The imbibition of cold water caused of smelling. The imbibition of cold water caused to the from the gall bladder almost twice the amount ob erved during the smelling tests when the duodenum was distended with air through a Rehfuss tube two of the four subjects showed a discharge of bile almost the same as that occurring in the first two minutes after the administ ration of egg yold. STASLYH MENTER M D

Held I W Roentgen Diagnosis of Gall Bladder

Disease Surg Cin \ 1m 1928 viii 1223

The author reviews in detail the various methods in use today in the study of the gall bladder by

means of the roentgen ray
Cholecystography as introduced by Graham
Cole and Copher is given consideration as regards

its development the technique of its application and its value not only as a diagnostic method but as a means of clearing up important physiological prob lems in connection with the gall bladder Studies in which this method was used to show the effect of drugs foods and other factors on the secretion and excretion of bile are described briefly From the disgnostic standpoint the procedure has yielded important information relative to the variable position of the gall bladder its size shape and mobility its relationship to parts of the stomach the duodenum or shadows of doubtful origin its function as evidenced by the concentrating effect of its mucosa and the emptying of its contents and the visualization of radiolucent stones within it Although absence of a gall bladder shadow after the administration of the dye usually indicates a pathological condition and the presence of a normal shadow speaks against such a condition these find ings are not absolute

Gall bladder study without dye yields positive results in a variable number of cases depending largely upon the skill and care of the examiner Different roentrepologists have reported that they have been able to diagnose from 5 to 90 per cent of gall stones by the ordinary examination George and Leonard have maintained that pathological changes in the walls of the gall bladder may ren der the organ visible in the ordinary film and that when the gall bladder is thus visualized it is patho

logical

Another method used in the roentgen diagnosis of gall bladder disease is the so-called indirect method which has as its object the demonstration of functional reflex disturbances of parts of the gastrointestinal tract and changes resulting from adhesions Thus various types of spastic contractions of the stomach gastric retention without an organic basis persistent gas distention of the hepatic flexure and distortion of parts of the stomach duodenum or

roton have all been found in association In conclusion the author states that roentgen ray study has proved to be an invaluable aid in the diagnosis of gall bladder disease. The direct and indirect method should be employed. The object of the direct method is to visualize the gall bladder proper This is accomplished by taking films of the gall bladder region with and without the administra tion of the dye The method of Graham (chole cystography) is by far the most valuable This procedure permits a study of the function of the gall bladder and makes it possible also to visualize cholesterinized stones in a large percentage of cases It shows with a high degree of exactness whether or not the shadows in the right hypochondrium belong to the gall bladder The non visualization of the gall bladder after the administration of the dye is particularly valuable as it indicates a disease con dition.

The oral administration of the dye is very re hable and promises to replace the intravenous ADOLPH HARTUNG M D method entirely

Baggio G Cholecystectomy for Calculosis After I assage of the Stone (Una colecustectoma per calcolosi a calcolo emesso) Pol d n Rome 10 1 XXXV sez Drat 1917

The patient whose case is reported was a worner twenty eight years old In September 19 6 .ht had an infection which was believed to be rura typhoid and lasted for two weeks. During this time she had a typical attack of gall stone colic. Similar attacks occurred in October and November and e attack in March 1927 The attacks then became less frequent but more severe and were accompaned by acterus and the appearance of bile pizme tin the unne

The author first saw the patient in Max 10 ? when she was having severe attacks every few days. Internists who had examined her had made a dig nosis of cholecystitis Roentgenolorical examination had failed to reveal any shadows of stones but a gall stone was found in the faces in an examination

made in an interval between attacks Cholecystectomy was performed during a pened of complete remission from pain and fever when there was no bile pigment in the unne Examina tion of the gall bladder was negative for stones 2 1 bacteria The author concluded that if the inflammation had been caused by the paratyphoid bac tena the micro organisms had probably become enclosed in the calculus and destroyed The abdomen was closed without drainage. Uneventful recovery resulted.

In discussing the advisability of cholecystectory under the circumstances present in this case Baggio states that he believes the operation was justified

as the patient has had no further attacks of color AUDREY G MORGEN M.D.

Ibarz P L Cancer of the Gall Bladder (Cancer de la vesícula biliar) An Fue de med Unit de Mon tevideo 1028 XIII 177

This is a report of cancer of the gall bladder in three women of from sixty five to seventy one vears of age. In two of the cases there was no history of gall stones or jaundice but malignancy was indi cated by loss of weight anorexia and digestive disorders The gall bladder was united to the colon and omentum by very dense adhesions. In the third case gall stones and cancer were both present The gall bladder was free and tense and was distended with bile and stones

The tumors were of an infiltrating type They did not invade the peritoneal coats but filled the gall bladder cavity with tumor mass and were ad herent to the liver fossa. Metastases to the liver

could not be found

Microscopic examination showed one tumor to be an adenocarcinoms with cylindrical cells and papillary formations Another was composed of cylin drical tubular and pavement epithelial cells with The third was a papillary en pearl formations thelioma composed of well formed typical cells which WILLIAM R. MEERER MD secreted mucus.

Surgery of the Gall Bladder Erdmann J F New England J Mel 1928 excit 703 yey F II Surgery of the Bile Ducts Ven England J Med 1018 excit 707 d E S Sequelæ and Accidents of Biliary Surgery Yew England J Med 1918 excit 712 Lahey F II

Judd E S The Relation between Gall Bladder Disease and Pancreatitis Vew England J Med

1918 CXCIY 716

White F W Some Medical Aspects of the Diseases of the Gall Bladder and Bile Passages Acu Incland I Med 1028 exctx 710

ERDMANN states that he performs cholecystos tomy only in cases of suspected carcinoma or some other condition definitely obstructing the flow of bile. If chalerystostomy is to be efficacious under such conditions the obstruction must be below the cystic and benatic ducts

In acute cholecystitis Erdmann rarely performs cholecystostomy the usual procedure being chole For cases of obstruction below the cystectomy cystic duct whether due to carcinoma or pan creatitis he prefers cholecystogastrostomy to

cholecy stostomy

To show the harmlessness of bile in contact with the perstoneum the case of a noman who developed an enormous accumulation of bile in the peritoneal cavity after a cholecystectomy is reported observation is one of the reasons why Erdmann usually closes the abdomen without drainage after removal of the gall bladder. He has noted that deaths following operations on the biliary system are due to pneumonia or renal or cardiac com plications rather than to peritonitis

In conclusion Erdmann states that the occasional operator should perform the operation with which he is most familiar and which when performed by him has the lowest mortality rate

Laney states that of 83, operations performed in his clinic for disease of the biliary tract 158 (19 per

cent) were performed on the bile ducts He has come to the following conclusions

I Common duct stones frequently exist in the complete absence of symptoms

2 Gall bladder colic may occur with jaundice and symptoms strongly suggesting the presence of stones in the common duct when no such stones can be found

3 Infection in the common and hepatic ducts may be unassociated with gall stones and may produce symptoms and signs similar to those of common duct and hepatic duct stones

4 Common duct stones may be present without Jaundice or clay-colored stools and may be associated with such mild symptoms of biliary colic that only the suspicion of stones in the gall bladder arises in the mind of the examiner

5 Therefore in many cases of gall stone colic the surgeon must guard against a tendency to be satisfied solely with removal of the gall bladder and its contained stones

For drainage of the common and hepatic ducts Lahey uses T tubes of smaller caliber than the duct

itself. In order to prevent pressure necrosis and the formation of a duodenal fistula care is taken that these tubes do not he behind the duodenum cases with merely mechanical blocking of the duct by a stone unassociated with infection the T tube is removed on the tenth or twelfth day but in cases in which there is infection or a reconstruction of the duct has been done it is left in place for from two to three months. In cases of complete severance of the duct in which suture of the cut end of the duct to the duodenum is impossible the best procedure is the formation of a complete external biliary fistula followed at the end of three months or more by dis section of this canal to the bed of the liver and its im plantation into the duodenum stomach or jejunum For cases of obstruction due to malignancy in either the pancreas or the ducts Lahey advises chole cystenterostomy. In the preliminary treatment of patients with jaundice he gives calcium lactate by mouth and calcium chloride by vein and transfusion Glucose is administered to maintain the glycogen reserve of the liver Most of Lahey's operations have been performed under high spinal angesthesia

Jupp states that after operations on the gall bladder it is not uncommon for certain symptoms to persist. Such symptoms have been attributed to the passing of a mucus plug through the duct. In some instances however they are undoubtedly due to cholangeitis hepatitis or pancreatitis. The pa tient can usually be assured that the difficulty will

not continue

Judd discusses non calculous intermittent biliary obstruction and reports 28 cases Following choice eystectomy the chief complaint in all was severe colic. At a second operation, considerable dilatation of the common duct was found in every instance The best results were obtained when prolonged drainage of the bile was established at this time Judd believes that the causes of the symptoms were biliary obstruction and inflammation of the pancreas and liver

Fistulæ following operations on the biliary tract may be of the mucous or the biliary type Before an attempt is made to repair a fistula the function of the liver should be carefully investigated

In the author s opinion injury to the ducts during the course of an operation on the biliary tract is usually due to insufficient exposure of the field of operation Attention is called to the fact that not all strictures of the common bile duct are due to mjury some of them are the result of obliterative cholangeitis

Jones states that the frequency of association of gall bladder disease and pancreatitis has been esti mated at between 20 and 50 per cent The rela tion of gall bladder disease to pancreatitis has been ascribed to (1) the retrojection of bile or duodenal contents into the pancreatic duct and (2) infection of the pancreas from the gall bladder through the lymphatics.

There appear to be two entirely different types of pancreatitis (1) acute hæmorrhagic pancreatitis in

which there may or may not be co existing gall bladder disease and () chronic inflammation usu ally occurring in the head of the pancreas follow ing previous attacks of gall stone colic or chole cvstitis

In the first type microscopic examination shows necrosis of the parenchyma and in the second type inflammation of the interstitual tissue. Acute hamorrhagic pancreatitis may be caused by a gall stone at the pupilla of \ ater or spasm of the sphine ter of Odds allowing the entrance of bile into the pancreatic ducts

The theory of lymphatic infection of the nancreas from a chronic gall bladder infection is not well upported by experimental evidence and seems to be disproved by certain clinical evidence

Jones believes that gall stones should be removed with the gall bladder if there are no contra indications. He is of the opinion that there is no clinical evidence whatever to prove that the so-called chronic cholecystitis and the cholesterol gall bladder have any crusative relationship to acute hamorrhagic pancreatitis

For the treatment of acute pancreatitis Jones advises incision of the capsule of the pancreas and drainage. For chronic pancreatitis he recommends the removal of all sources of infection and drainage of the bihary system for a period of at least two weeks

WHITE reviews the known facts relative to the physiology and pathology of the gall bladder region and calls attention to the importance of stasis and infection and changes in metabolism in gall bladder disease. He states that what was formerly known as strawberry gall bladder is now called the

cholesterol gall bladder He stresses the impor tance of a curefully taken history and physical examination and the Graham test in the diagnosis He divides cases of of gall bladder conditions hiliary tract disease into three groups those with typical colic those with local soreness and those with vague indigestion without local symptoms. In cases with jaundice the icterus index and van den Bergh test are important

The treatment of disease of the biliary tract should include regulation of the diet weight reduction regular exerci e the use of various spring waters the elimination of focal infections and reduction of the cholesterol intake Surgery should be based on symptoms and not on the presence of stones and low grade infection The duties of the physician in cases of biliary disease are to make a diagnosis to send to the surgeon the cases of gall stones with symptoms to give medical treatment in some of the mild early uncomplicated or poor risk cases of cholecystates and to prevent delay of necessary JOHN H GARLOCK M D operation

Ladd W E Congenital Atresia and Stenosis of the Bile Ducts J 4m M 4ss 19 8 xc1 1081

Approximately 170 cases of congenital atresia and s enosis of the bile ducts have been reported to date

The author adds 20 cases 11 of which were treated

surgically These abnormalities have been attributed to con

genital syphilis fetal peritonitis catarrhal tholan gestis and congenital malformations. The author believes that congenital malformations are most often responsible and that I lppg a theory of em be once epithelial concrescence of the mucos of the ducts best explains the lesions

The 20 cases reported by Ladd included 5 cases in which all of the ducts (common hepatic and c) stic) were represented by fibrous cords 3 cases of obliteration of the common duct a cases of partial obliteration of the common duct with dilatation of all of the ducts and of the gall bladder 1 case in which a moderately sized gall bladder had no con nection with the common and hepatic ducts and a cases of partial obliteration of all of the ducts with obstruction due to inspissated bile or cell d infus. The 4 other cases were grouped in the autique records as cases of congenital obliteration but the sites of the lesions were not definitely stated

Of the 11 patients who were operated upon 6 recovered Choledochoduodenostoms is the open tion of choice when it is posible. This operal a was done in 2 cases with good results Occasionally simple probing or dilatation of the ducts is suff cent. The insertion of a catheter through the gall bladder and the cystic and common ducts into the d oferum is a good procedure Cholecy stogastrostomy proved satisfactory in the single case in which it was done

The author believes congenital atresia and stenosis of the bile ducts is not as hopeless as it was formerly considered and advises early exploration in the case of every infant in which the condit on is su pected.

STANLEY II MENTZER M D

Studies on Biliary Fistulæ (Ucher Tammann Stu lien an Gallenfi teln) Zent albi f Chr 1928 lv Brr

Tammann reports his re-ea ches on doos in which a biliary fistula was established after ligation of the common bile duct by connecting the gall bladder and the urmary bladder by a tube Anzmu developed with great regularity the erythrocytes and the hamoglobin sank to two thirds their original values Except for the postoperative len corviosis the white blood picture was unrhanged Histological examination revealed a pronounced hæmosiderosis of the spleen and the abdominal lymph giands (storage of the hamoglobin iron in the depots of the reticulo endothelial system not excretion corresponding to the grade of the snæma) The fact that in several dogs the bile fistula anamia assumed a progressive character after splenectom) suggests the presence of a regulatory mechanism in the reticulo-endothelial system

Investigations as to what constituents of the bile are responsible for the occurrence of bre-fi tula anamia showed that feeding with ox gall will bring about retrogression in an already man test bile fistula anæmia or if it is begun immediately after the establishment of the biliary fastula will prevent
the appearance of the anemia. Bilirubin and lex
thin were without effect on the bile fistula anemia,
but bile acids (sodium taurocholate or sodium gly
cocholate) and cocholate and cocholate or sodium gly
cocholate) and cocholate or sodium gly
cocholate and cocholate or sodium gly
cocholate and cocholate or sodium gly
cocholate description (vitanim D) had
a very distinct effect or ground granulofilament
gly thintogle with abbitantia granulofilament
appeared Ergostern therefore seems to be a very
calve stimulant of the humat opporter function of the
bone marrow and might prove to be of therapeut;
value in pertinous anemia. Cholestern on the
other hand increased the anemia (increased blood
destinction)

Since a porotic osteomalacia develops after a few weeks in dogs with a biliary fistula (Recklinghausen Dieterich), it seems logical to assume as the cause a disturbance of absorption of the fat soluble \ stamin D from absence of bile in the intestine (Mueller and Seifert) Dogs with already developed osteomalacia due to a bihary fistula were treated with \itamin D and in other dogs the treatment with Litamin D was begun immediately after the formation of the biliary fistula Since Vitamin D (ergosterin) had not been isolated at that time a 3 per cent solution of activated cholesterin was used Every second day a subcutaneous injection of o of mgm of activated cholesterin was given. The results were judged by morphological examination chemical analysis of the bone and comparison of the regenerative ca pacity of the bone in surgically produced defects It was found that \itamin D has a very distinct effect on osteomalacia due to a biliary fistula even when the osteomalacia was already manifest Vitamin D was able to evert a favorable influence Dr. stort (7)

Taylor J Cystic Dilatation of the Common Bile

Duct Record of an Example Brit 1 Seg.

1928 xv1 327

Taylor states that the case reported in this

article was apparently the first of its kind to be recognized before operation and successfully treated surgically

The patient was a woman teenty three vers of see Since serve early childhood she had had at teks of pain in the upper part of the abdomen shell radiated to the back but not to the shoulder shell reduced the companied by continuous womiting and followed by continuous woman and followed by continuous woman and followed by the woman and the woman and which cocurred while the private was under observation in the hospital a mass the size of a tennis bull could be felt under the right costal margin. These stricks were accompanied by chills and fever weakly would be teame work on the course of a few exclusions.

Operation revealed a slightly enlarged gall bladder which a short distended cystic duct which emptied into a dilatation of the common duct about the size of a tangerine orange extending from the juncture of the cystic duct to the second part of the duo denum.

The gall bladder was sutured to the stomach a in a cholecystogastrostomy and the abdomen closed with drainage From the aspirated gall bladder contents a pure culture of bacillus coli was obtained Bile drained freely from the wound until five

weeks after the operation when the patient wa dismissed from the hospital Three and a half months later she was well STANLEY H. MINITER M.D.

Finney J M T and Finney J M I Jr Resection of the Pancreas inn Surg 19 8 lxxxviii 584

The authors report a case of persistent marked hypoglycæmia associated with attacks suggesting insulin shock or hysteria in which missive resection of the pancreas was done to reduce the number and output of the islands of I angerhans.

The improvement which resulted shows that the removal of large portions of pancreas is comparatively safe

Samuel Kahn M D

Hitzrot J M An Unclassified Type of Spleno megaly in Children 1nn Surg 1928 lyxxviii iot

Largements of the sphen in children are not common but bear a close resemblance to the splenomeralies found in adults

The author reports four unusual cases of spleno megaly with anamian an children giving the complete case history in each instance. The outstanding feature of these four cases was shower of nucleated red cells which appeared immediately after splene cotony. In one case the nucleated red cells persi ted for fourteen vests after the splenectomy, the ratio for fourteen vests after the splenectomy, the ratio for splenes in the differential blood count. In the three other cases they remained 5 in the differential blood count in the three other cases they remained for eight six and two years respectivel, the nucleater do being from five to eight times more numerous than the nucleated hister.

Nucleated red cells were not present following splenections, in the other plenontegalises that the author has studied or at least were not present in such large numbers. The presence of numerous nucleated red cells in cases sreembling stypical von lacksch of sease and at repual harmoly tie, juundice placksch of sease and at repual harmoly tie, juundice as that found by the author (220 000 per cubic millimeter).

thother interesting feature of the author's four cases was the onset of the duease in the econd'y car of life with the appearance of a curious tint to the skin blussh white sclerar vomiting loss of appetite and weakness

A third feature of note was the lack of growth and development. Shorth after the splenectomy the children began to grow normally and to develop mental traits characteristic of their ares.

The pathologist reported that the structural changes in the spleen were relatively slight and not characteri tic of any definite clinical condition

STANLEY II MENTRER M D

Whipple A O Reeves R J and Cobb C C A
Typical Hæmolytic Anæmia with Spleno
megaly in Children Ann Surg 1928 IXXXVIII

The splenomegalies associated with animum occur ring in children are especially difficult to classify The one common factor is the apparent dysfunction

of the reticulo-endothelial cells

In some instances this dysfunction is localized in the spleen as in chronic hemolytic iderus and splenectomy is apparently curative. In others the retrudue and otherhold disturbance often appears in the liver I) mph nodes or bones as well as in the spleen in such cases splenectomy may be successful. Thrombopæme purputa belongs in this group. It till another group of cases represented by the Gaucher type of splenomegaly the abnormal cells are found in all four sites but are most numerous in account for the difficulty encounter and degree may account for the difficulty encounter and degree may

The authors add two cases to the seven previously reported by other observers in which splenomegali anæmia and jaundice in children was accompanied by pecuhar bone changes and atypical cells of the Gaucher type in the spleen The bone changes were especially marked in the skull and long bones. The former showed thinging of the inner and outer tables with great thickening of the diploe particularly in the frontal and occipital bones. The long bones presented a streaky appearance due to transverse lines of calcium occurring in generally decalcified The bone changes occurred very early e pecially in the parietal and frontal regions where the cortex was expanded giving the child a mon golian facies The spleen showed general fibrosis especially in the capsule and trabeculæ and peculiar vacuolated cells of the Gaucher type scattered in the splenic pulp. The authors believe these cells were atypical or abnormal reticulo-endothelial cells STANLES II MENTZER M D

Deaver J B and Relmann S P Splenic En largement with Cirrhosis of the Liver Ann Surg 1918 ixxxviii 355

Well selected early cases of Bantis disease are cured by splenectomy and late cases are sometimes materially benefited by this operation. The authors

report a late case

The spicen is not necessary for life everpt possibly in cetain mergeneous when its reservoir of hosbidy in needed. When necessary it can produce red blood cells as well as destroy them. It stores ion and is concerned in the secondary of the stores with the concerned in the secondary of the seco

The ethology of diseases apparently beginning in the spleen exclusive of tumors is unknown. Such conditions are characterized by splenomegaly a moderate secondary type of anæmia and a group of more or less constant symptoms such as heaver trages jaundice loss of strength and weight and Curniosis of the liver. The marked warstnoss in the 55 mptoms make it difficult to believe that we are dealing with a uniform condition jet of are streat ment is concerned it is perhaps better to consider this to be the case.

Banti s disease is a distinct entity. It has the chir acteristics of a primary splenic disease. It is probably best to consider it due to tonic or poorly defined infectious substances formed in the splene and leading to fibrosis of that organ inhibition of the box

marrow and secondary cirrhosis of the liver In all cases of splenomeraly the authors first search for a cause of the splenic enlargement li no cause can be found the splenomegals is diagnored as the primary condition Splenectomy is then considered Translusion is performed if the homo lobin p below so per cent Unless the spices is enormously enlarged the pedicle can be reached anteriorly after the stomach has been drawn well to the right and the gastro splenic omentum has been divided. An, adhesions present are separated and the spleno-phrene fold of the perstoneum is divided The sp'een is the turned over so that the vessels may be seen in the pedicle The vessels are cut with care rot to in rethe tail of the pancreas I enous oozing is controlled by hot packs after the important vessels have been individually isolated and tied. After the bleeding has been controlled the abdominal wall is closed without the introduction of a drain

STANLEY H MENTZER MD

MISCELLANEOUS

Moody R O and Van Nuys R G Some Results of a Study of Roentgenograms of the Abdom inal Viscera in J Rontz not 1928 xt 348

inal Viscera im J Ro nig nol 1918 XX 348 The authors report the results of a roentgenological study of the normal form position and topography of the liver and spleen in 600 healthy male and 600 healthy female students Most of the roe tgenograms were taken with the subject erect, in the anatomical position but several hundred were taken with the subject erect and prone and a smaller number with the subject erect and supine. The target was usually centered on the interilize line a line drawn between the highest points of the that crests but when rountgenograms were taken to show the effects of exercise and of blood transfusion of the size of the spleen it wa cent ed over the spleen With the subjects in the anatomical position the target film distance was 90 cm With the sub jects prone and supine a Bucky diapl ages was used and the target film distance was 72 5 cm. The results are shown in tables and illustrations. The following conclusions are drawn

Long livers having their lower tip in the pelvic cavity as much as 50 cm below the intenhac line

are normal

Sex is a factor affecting the length of the liver.

A roentgenographic norm has been established for the size of the spleen in healthy young adults

The lower border of the spleen is most commonly found opposite the upper half of the third lumbar

Long spleens having their lower border on a level with the lower half of the fourth lumbar vertebra are normal. These long spleens are found in persons with no history of malaria

Sex is a factor affecting the length and the shadow width of the spleen More men than women have long soleens and more men than women have a

wide soleen shadow

There is strong evidence that in human beings the spicen is considerably larger in the living than

There is some evidence that exercise and the loss of blood given for transfusion decreases the size of the spleen in man ADOLPH HARTUNG M D

Hunter W E Diaphragmatic Hernia California

6 Hest Med 1018 XXIX 227 Hunter describes three types of diaphragmatic

hernia and suggests the following classification

1 Concentral bernary

A Laise hernix without a sac (from 80 to 90 per cent of reported cases)

B True hernise with a sac (from 10 to o per cent of reported cases) 1 \counted herma

A Herniz which develop through congenitally weak areas in the diaphragm These weak spots may be caused by (1) defective development of the diaphragm (2) disease within the diaphragm itself or secondary to an abscess above or below the diaphragm or (3) blows which injure the

musculature the hernix occurring immediately or at a much later period B Blows which tear the diaphragm from its attach

ment to the chest wall. This condition is not a hernia but an evisceration or evulsion of the diaphragn

3 Eventration This is not hermia but a relaxation or

weakness of one side of the diaphragm. In the ten cases which have been reported in the literature it occurred on the ri ht side 1 Congenital

B Acquired

Eventration may result from (1) immature development of the lungs which leaves the diaphragm

high (2) developmental injury to the phrenic nerve causing relaxation or (3) improper development of the musculature of the diaphragm. The condition is often associated with other developmental defects

Diaphragmatic hernia is more common than is generally believed and is often overlooked by the physician or surgeon. The diagnosis is usually made by the roentgenologist or at autopsy

HERMAN H HUBER M D

Diaphragmatic Hernia With a Giles R. G. Report of Cases Texas State J M 1928 XXIV 418

Diaphragmatic hernia is diagnosed more fre quently since the use of the \ ray There are two main varieties the congenital and the acquired The congenital is due to a defect in the development of the diaphragm while the acquired is due to The former is usually present at birth The latter may develop immediately after an injury or not until months or even years later

Both types occur most frequently on the left side A large percentage of acquired hernix follow stab

wounds of the chest The signs and symptoms of diaphragmatic hernia

are not pathognomonic They depend largely upon the size of the opening in the diaphragm the degree of constriction and the organs involved. The subjective symptoms range from vague discomfort to symptoms suggesting gall bladder disease or ulcer In some cases there is interference with gastric function There may be also interference with

respiration The most constant symptoms are pain in the epigastrium immediately after eating paroxysms of smothering without apparent cause and vomiting without premonition

ray examination is practically always necessary to establish the diagnosis At times even the roent gen findings may lead to erroneous conclusions as temporary spontaneous reduction may occur the examination then being negative double diaphrag matic hernia may exist and only one hernia may be demonstrated roentgenologically or only solid organs may be herniated

Disphragmatic herma must be differentiated from eventration of the diaphragm diverticulum of the cardiac end of the stomach and diverticulum of the lower end of the assophagus

ANTHONY F SAVA M D

GYNECOLOGY

UTERUS

Grant W. W. An Improved Technique in the Operations of Colporrhaphy and the Watkins Interposition Operation. Tr. West Surg. Ass.

In the modified reducing employed by Grant in colorbrishops and the Wathers interposition operation the bladder is district in pronounced cystocele and in descent of the uterus and procedents following Iscentions due to childbirth the bladder is unally found prelapsed in the pocket of the property of the primary procedure is exactly the same much the primary procedure is exactly the same of the primary procedure is exactly the same of the primary procedure is exactly the same of the primary procedure.

In the improved technique that is suggested by Grant the long anteroposterior incision of the arterior vaginal wall in common use is discarded in both. To get the base of the bladder out of the danger zone Grant conceived the idea of filling it with warm nater. This procedure has proved

entirely satisfactory

It is followed by transvers, incision of the vaginal
wall just beneath the posterior urethra by one bite
with the sessors entering at once the loss con
nective these space between the bladder and the

1100+140

The dissection is completed to any depth or width desired with the fingers and curved blunt pointed scissors or with gause. Grant has found that by this procedure the dissection can be completed to the base of the bladder with extreme rapidity case and safety.

In colporhaphy the oval section of the vagina is completed by two anteroposterior lateral messions instead of three as in the usual method) and the denuded area is closed with a chronic gut con timous suture. In the Watkins procedure the an enerce cal-de-act so speemed at the certicological with the effected peritoricum is penetral with the collected peritoricum is processed with the control of the peritoricum is then spread to make the opening of the pentioneum sufficiently large to accommodate the steps.

the uteris.

The fundau uten is grasped as usual sith tenze us and pulled into the pocket that has already been prepared between the bladder and vagans. By this method the uterity of the vagans will si fully the uterity of the vagans will si fully method to the nor risk to the hearing process me of the ten to a long vagani mension having the weight and pressure of the uterus upon it. The fundas is fixed by non absorbable sutteres to the vagani usians or to the subpubic tissues as recently advised by Kelli.

Ahumada J C and Prestini O Tuberculosis of the Cervix of the Uterus (Tuberculosis del ciello del atero) Rev argent de obst y ginco 1918 El.74

The authors report a case of tuberculosa of the cervix successfully treated with radium. No other

tuberculous lesion could be found

Tuberculosis confined to the cerva is much are than tuberculous endometries or salpangus. It is often confused with cancer of the cervar but the tuberculous besons is more elastic and less finishe than the cancerous and is usually covered by an copura lent fluid which is very diffe ent from the grunoss purulent exudate of an epithelioma.

William R. Meerer M.D.

Culien T S Uterine Hæmorrhage and Its Treat ment Canadian II Ass J 1928 xiz 411

Conditions causing uterine harmorrhage fall into tho groups (i) those dependent upon a recent pregnancy and (2) those independent of a recent pregnancy. This classification simplifies the tudy

Uterine hamorrhage dependent upon a recent pregnancy occurs with premature separation of the placenta retained membranes hydatidiform mole chorionepithelioms tubal pregnancy and pregnancy in one horn of a bicornate uterus. The author discusses the history the physical findings and the importance of microscopic diagnosis of ma end expelled from the uterus. The diagnosis of hidstidiform mole is materially helped by the palpation of bilateral cystic tumors on either side of a rap de enlarging uterus (multilocular lutein ovarian () (19) These cysts occur only with hydatidiform mos and chorionepithelioma and disappear spontaneously on removal of the mole or the choronepitheliona. The histological pictures of mole and choron epithehoma are much alike Cosgulation necro-s of tissue lining the uterus is strong presumptive evidence of malignancy Bluish discoloration around the umbilious indicates the presence of free blood in the perstoneal cavity, and in women this is often the result of hamorrhage from an extra utenat

pregnancy
Uterine hamorthage occurring independently of
recent pregnancy may be due to (c) a constitutional condition (j) being home to the motion
tonal condition (j) being home to the motion
tonal condition (j) being home to the motion
tonal condition of the motion of the condition
tonal condition of the condition of the safety
(j) uterine tumors or (j) usesse of the adverlate terrical and uterine polyps hyperplana of the
substance terrical and series prophic changes uterterine and cervical mucosa. Malagamentary
uterine and cervical mucosa. Malagamentary
and the condition of the series of the series of the
terrical condition of the series of the series of the
series of the series of the series of the series of the
accordance of the condition of the series of the
series of the series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the
series of the series of the series of the series of the
series of the series of the series of the series of the
series of the series of the series of the series

importance of microscopic diagnosis as an index to the proper treatment of these conditions. Uterine tumors causing hæmorrhage are myomata adenomyomata and sarcomata Myomata are common A submucous myoma 2 or 3 cm in diameter projecting into the uterine cavity may cause severe bleeding Adenomyomata generally cause profuse and prolonged menstruation but no intermenstrual bleeding Sarcomata are relatively rare. In 1 or 2 per cent of the cases they are associated with uterine myomata On section they are readily differentiated from the latter by their homogeneous pork like non striated appearance. They are readily broken up with the finger It is important to remember the association of uterine tumors with cancer. In the author's cases of myoma cancer of the cervix was found in I per cent and cancer of the fundus in 2

Disease of the tubes or ovaries is not an infrequent cause of uterine bleeding and may be difficult to differentiate from extra uterine pregnancy. In conclusion Cullen says that the treatment of

utenne hemorrhage will be improved as the etiology becomes better known ALICE F MAXWELL, M D Sampson J A Endometriosis Following Salpin

gectomy 1m J Obst & G3 nc 1928 xv1 461

The evidence indicating that peritoneal endo metnosis at times arises from the implantation of mullerian epithelium escaping through or from the tubes may be summarized as follows. I Pentioneal endometriosis occurs in women and

not in men
2 It is an acquired lesion and usually (possibly

always) develops during menstrual life and most frequently in the latter half of that life

3 Experiments in the autotransplantation of bits of muelletian mucosa in the lower animals by Jacobson and others showed that such mucosa may be successfully transplanted to the peritoneum of these animals

4 The study of postoperative endometriosis in women shows (or at least suggests) that tubal and uterine epithelium may be transplanted by the

surgeon.

- § The study of endometrial tissue in the ovaries suggests that this tissue may appread to the peritoneum by the implantation of epithelium which escapes from the ovary both through the perioration (menatical) of endometrial cysts and also the menstrual teaction of endometrial tissue on the surface of the ovary. This evidence is purely circumstantial but is most convincing.
- 6 I entoneal endometriosis often occurs without avacernible endometrial tissue in the ovaries. Therefore the latter is not essential for the development of the peritoneal lesion.
- 7. One of the outstanding features in cases of Pentonnal endometriosis is patency of the tubes. In 347 cases of pentonnal besons containing endome trum like tissue (other than postoperature cases) which were seen in the last six years both tubes.

appeared to be patent in 330. Unlateral hæmato salpinx mas present in 3 and bilateral hæmatosal pinx in 4. Patent tubes apparently increase the incidence of peritoneal endometriosis and the relatively large number of patients with hæmatosalpinx must be of some significance. In the cases with occlusion of both tubes the peritoneal lessions might have been present prior to the closure of the fimbrated ends of the tubes.

8 The peritoneal lesions often occur in situations and under conditions indicating their origin from material escaping from or through the patent tubes

- 9 The study reported in this article shows that after salpingectomy the traumatized mucos of the tubal stump may invade not only the stump but also any structure adjacent or adherent to it and give rise to the lesions of peritorical endometross including typical endometrial exists or harmatomata of the ovary.
- To These studies show also that the misplaced tubal mucosa may assume the structure of the uterine mucosa. Therefore many of the endome trium like lesions of peritonical endometriosis may be of tubal rather than uterine origin.

11 It has been shown that bits of the uterine mucosa set free by curettage may be carried by blood escaping from the uterine cavity into the tubes

tubes

12 It has been shown also that during men struction blood may escape from the uterine cavity into the tubes and that this blood may contain bits of uterine mucosa

13 There is evidence indicating that bits of uterine mucosa may escape into the venous circula tion of the uterus during menstruation and become implanted in the venous sinuses of the uterine wall

i4 Since peritoncal endometriosis develops during the mensitual file of somen and since the menstrual reaction often causes a dissemination of bits of uterine mucosa and possibly also of the tubal mucosa menstruation may be an important factor in the dissemination of muellerian enthelium into the peritoncal cavity.

15 Tubal epithelium might readily escape from the tubal fimbrix independently of menstruation 16 The evidence thus far obtained shows that

peritoneal endometriosis may arise from the implantation of both tubal and uterine epithelium 17. The present studies support this theory and

17 The present studies support this theory and emphasize the origin of peritoneal endometriosis from the implantation of tubal epithelium but do not exclude its origin from other sources

E L CORNELL, M D

Ward G G Radium Therapy of Carcinoma of the Cervix Uterl Br 1 V J 1938 11 657 Murray E F Radium In the Treatment of Carci noma Cervicls and Intractable Menorrhagia Brit M J 1938 10 659

Belore the discovery of radium by Mme Curie cancer of the cervix uters was treated by local de struction of the carcinomatous tissue by cauteriza tion or operation. The question today is. Can we with radium obtain the same result in cancer of the cervix as can be obtained by the Wertheim operation without the high mortality of that operation? WARD reports the results obtained with radium in the Woman's Hospital of New York

The armamentarium consists of about 280 mgm of the salt in tubes and needles and the average in tial dose has been from 2 400 to 4 200 mgm hrs Experience has shown that the employment of mas sive doses cannot give any better results than the intelligent application and re application of smaller doses In 50 per cent of the cases re irradiation has been done and in many of the cases with a successful outcome three or more irradiations have been given The following tables summarize the results

TABLE I FIVE YEAR END RESULTS (MAY 1928) OF RADIUM TREATMENT OF CARCINOMA OF THE CERVIX TITED! AT THE WOM IN S HOSPITAL NEW YORK

OIDIG IL					
	Pheis t td	P te ts traced	Pti tlviz		
Type is e			М	f thes	f thos traced
Class 9 3 4 Class 2 dum t d	134	16	3	16	,
Class # (lumited	١.		27	1 15 7	51

Preserve tally o 44 pe ce t.

TABLE II COMPARATIVE FIVE YEAR RESULTS AND PRIMARY MORTALITY OF RADICAL OPERATIVE AND RADIOLOGICAL TREATMENT IN TOTAL CASES OF PARCINOMA OF THE CER/IX

	ting P t	m talit
All choics Ope t t ime t R d logic ltr tme t	8 3	? *
R damb mm t W m ps Hosp tal Cunyc M y 98	3 "	
Frm If yman R pot 97		

TABLE III COMPARATIVE FIVE YEAR RESULTS IN OPERABLE CASES OF CARCINOMA OF THE CERVIN

	Pct
All elimics Op to stre treent P of 1 escalt ton of	35 6 34 9
R'd [gealt ter of R di mb min t Noman Hospital Clin My 98	44 4 53
Form H yman Report VI y 9 7	

MURRAY reports a study of over 200 cases of car cinoma of the cervix and intractable menorrhagia treated with radium since January 1926 and 130 cases in which a Wertheim operation was done Radium bromide (100 mgm) was applied for twenty four hours to the external os After the application the patient was kept at rest for fourteen days 5 gr of potassium iodide were given three times daily

and a douche was given daily The after results in 38 operable cases treated by the radical operation alone are compared with those obtained in a similar number of cases in which the radical operation was done after a preliminary application of radium. The lapsed time was three years in the first group and one year in the second group The results were as follows

Operation only Alive and well Operative deaths	Par cent 60 5
Recurrence Death from other causes	30
Radium and operation	
Alive and well	4
Operative deaths	15
Recurrence	31
Death from other causes	•

These results appear most unfavorable to radium but their correct interpretation is that by the is of radium it is now possible to include in the ope able group cases in which in the earl er days, the surgeon would have hesitated to operate

In mop rable cases radium undoubtedly improves the local condition. After the irradiation there is u sally a smoothing and ultimately a contraction of the ulcerated area. The patient reports that she feels better and that the bleeding and even the du charge has ceased The average duration of his does not appear to be greatly influenced in the majority of cases Of 23 patients who were ton sidered inoperable in 1926 and were treated with radium alone 4 were alive in July 10 8 but 3 of them are in poor health Of 24 pat ents who were regarded as inoperable in 1927 17 are dead 5 are

dying and 2 show no definite change Murray concludes that radium treatment is safet than hysterectomy gives almost as certain results as operation and is the preferable form of treatment in such cases The advantage to the patient in every respect is obvious Radium irradiation i especially indicated in the cases of patients suffering from disease of the heart lungs or kidneys in which prolonged anasthesia and a major operation should be avoided It is the ideal treatment for extreme y nervous and elderly patients. It might be of use also in producing the artificial menopause in patients suffering from pathological blood disease with a view to conserving the blood supply

HARRY W. FINE, M.D.

ADNEXAL AND PERIUTERINE CONDITIONS

Novak E and Everett H S Cyclical and Other Variations in the Tubal Epithelium Am J Obst & Gynec 1928 XV1 499

While the tubal mucosa does not participate in the bleeding of the menstrual process its epithelium exhibits a definite cyclical change which is com parabl to that of the endometrum but not nearly so conspicuous as the latter consisting more in microscopic changes in the cells rather than in the grosser changes in pattern seen in the endometrium. The authors conclusions from examinations of the tubes in 136 cases in the majority of which the endometrium also was available for study are as follows

I The tubal epithelium consists of two chief types of cells the chiated and the non cubated. The latter are often spoken of as secretory cells. A

third type the peg cells (Stiftchenzellen Schaltzellen) have also been described but it is probable that these represent only a phase of the

non chated cells
2 In the interval phase the epithelium is uniformly tall the calated cells being broad with rounded nuclei near the free margin, while the non

rounded nuclei near the free margin while the holiculated cells are narrower with nuclei more deeply placed and taking a deeper stain 3 In the premenstrual phase the ciliated cells

become lower so that the secretory cells project beyond them giving the epithelial margin a ragged uneven appearance. The secretory cells show a bulbous herniation into the lumen of the tube. In spite of the great loss of cells mitoses are rarely seen in the tubal epithelium.

4 During the stage of menstruation the prementual changes are earned father the epithelium becoming quite low. The chiated cells especially forman broad and low but the secretory cells as a large property of their cytoplasm are much lessened in height the nuclei often being quite bare of cytoplasm. Peg cells are numerous and their poperance and distribution, suggest that they are

merely empitied secretory cells

5. The postimenstrual phase is characterized first
by a los epithelium which quite rapidly increases
in height so that by the third or fourth day after
menstruation it is often almost as tall as during the
interval phase. The cells are narrow closely placed

and after the first day or so of uniform height 6 During pregnancy the epithelium becomes even lower than in the menstrual stage and in the later stages it may become almost flat in many places Secretory changes are not seen at this time

? Clus can be demonstrated in all stages especially by the examination of fresh tissues by the technique described. They are found also in the technique described. They are found also in the tubal epithelium of soung children and of women many years beyond the menopause. This suggests that ther must have some other function than that of assisting in the propul on of the ovum. Perhaps is has been suggested by Hartman their chef rôle is that of kreping the jubal lumen cleansed of fortem particles.

8 Efforts at differential staining of the secretion have thus far been unsuccessful either givcogen nor mucin can be demonstrated. There is as yet no

positive knowledge regarding the significance of this tubal secretion

9 The prepubertal tubal epithelium is rather low

but shows both chief types of cells. Cilia however are very sparse and are usually not seen at all in fetal or very early postnatal life.

to The epithelium of the postmenopausal tube may remain quite high for a urprisingly long time

ŧ

perhaps a number of years after the cessation of menstruation Cibia also may persist for many years Sooner or later however the tubal folds become rounded and of fibrous appearance the epithelium becomes low or even quite flat and the cibia of course disappear

11 The tübal epithelum of tubes removed from patients suffering from hyperplasia of the endo metrium was studied because the latter condition is unquestionably associated with a functional disturb ance of the ovaries. Characteristically the epithelum was found to be high uniform and compact with narrow cells most of which were clinically the control of the control

of the corpus luteum influence

12 The comparison of the tubal cycle in women with that of the lower animals like the comparative study of the uterine and ovarian cycles emphasizes the important differences chronological and histological which exist. For example, the estrus tube of the rodent resembles not the menstrual or pre menstrual tube of the human being but the interval Since cestrus in the lower animals is due undoubtedly to the follicle hormone it seems clear that in the human being the maximum of follicle influence is reached during the interval phase and that the later changes are due to the corpus luteum influence. To bear this out the picture in the animal tube which resembles the human premenstrual tube is that seen in the metæstrum during which stage the corpus luteum apparently plays the dominating F L CORNELL M D

Walliams J W Therapeutic Sterilization J Am M Ass 1928 xcs 1237

The author reports 118 sterilizations performed in 33 000 obstetrical cases admitted to the Johns Hophus Hospital The sterilization was an essential feature of the inter-ention. In other cases not included in this series it was unavoidably associated with an operation such as Forro section for uterin melection. By seterectiony for ruptured uterior or uterior infection in settle of the property o

Stenization may be effected by (1) operations on the oranes such as astration or burying of the ovaries under the pentioneum (2) operations on the tubes (3) operations on the tubes (3) operations on the unerus or (4) the use of the Vray Castration is undestrable and burying of the ovaries is uncertain The Vray is uncertain when permanent sternity is desired and when it is used for temporary sternity may damage the ona so that senous fetal abnormality may result when an ovarian is fettilized.

Hence for the production of permanent sterility we are restricted to uterine or tubal operations Of these the only reliable procedures are hysterec tomy (preferably supravaginal) and wedge shaped cornual excision of the proximal ends of the tubes

with careful closure of the uterine wound with fine sutures These operations may be performed on non pregnant women pregnant women or following

casarean section at or near term

Of the 118 somen whose cases are revened, 66 were stenfused at term (34) radical section and 33 by conservative section plus tubal stenhation) at were operated upon rior to viability (2, by hysterectomy and 18 by hysterotomy plus tubal steniation) and 7 were on pregnant (4 treated by hysterectomy and 3 by rubal stenhation) Of the 66 tenhations at term 48 were performed on account of marked disproportion necessiting representations of the stenhation generally being done at the third or fourth section. The majority (about op per cent) of the histerectomics were performed on colored worsen who are much more indifferent to the preservation of mentionation while

Nomen Pathological conditions in the series necessitating sterilisation were chronic nephritis (28 cases 9 at term and 19 before vability) enous heart disease (12 cases 5 at term 6 before vibility) enous heart disease (12 cases 5 at term 6 before vibility) and 1 at the end of the purperumi hiberculosis (6 cases all early in pregnance) and disease of the solitary tratefully by sweetcomy). In the case of the solitary tratefully by sweetcomy in the case of the previously sepended the appendages on one side being removed simultaneously sterilization was performed after section at term by corroual excision of the remaining tube chiefly on account of persistent ab dominal pain throughout the pregnancy

In the past seven years the sulhor has performed sterilizing operations 15 times for pas chartre indications and 4 times for social indications. He realizes that the validity of such indications may be questioned but believes that in these few cases selected from a much larger number studied in collaboration with the operations are all welfare departments.

the todications were definite
In Williams opsuson the prevention of coareption
is justified by chronic neghritis tuberculous serous
heart die ar and frequent childreams in the case
heart die ar and frequent childreams in the case
certain but the best is the use of the sheath or the
occusive pessary. Absolute continence is of course
the only thoroughly reliable method but in most
cases is impossible of redulation and may feed to
maintal unhappiness. Advocs tregular contracep
therefore the continence of the contract of
the contract of the contract of the contract of
the contract of the contract of the contract of
the contract of the contract of the contract
the contract of the contract of the contract
the contract of the contract of the
contract of the contract of the
contract of the contract of the
contract of the contract of the
contract of the contract of the
contract of the contract of the
contract of the contract of the
contract of the contract of the
contract of the contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contract of the
contr

Laqueur E and De Jongh S E A Female (Sexual) Hormone J Am M A 1928 xx1

The authors have isolated a water soluble non tour hormone which they called menformon Ithological and biochemical properties are summar ized as follows 1 It produces cestrus in castrated rais and mice 2 Experimentally it increases the size of the five nile uterus vagina and tubes

3 It induces growth of the mammary glinds in young females and males. When small does are given only the glandular tissue grows large does develop the external parts fat tissue and mammilie

4 It increases metabolism only in cast aid females

5 It has an antimasculine influence on the testes, penis seminal vesicles and prostate. In joung nal animals at retard growth and in adult males a causes a considerable reduction in the size of the testes.

5 It is non torue over long penods of time

7 It is resistant to heat and the action of all alse acids ferments and reduring agents but is susciptible to oxidizing agents.

Menformon occurs in and may be prepared from normal organs and fluids (placenta te tes follower fluid aminiotic fluid and urine)

It is marketed as a solution containing so usity per cubic centimeter. A unit is the mout unit VI is the mailest quantitie which divided use as does no forty eight hours produce as implement parable with those of normal cistrus in 75 per cell of castrated mose on the which it is impeted.

The authors report only experiment I data. The therapeutic efficacy of menformon in clinical cases is not discussed. Charles F. Dr. Bos. M.D.

Allen E Pratt J P Newell Q U and Bland
L. Recovery of Human Ova from the Litrine
Tubes Time of Ovulation in the Mensionsi
Cycle J im M is 1928 xc1 1018

Relatively little is known of the human over from just before the time of ovulation until after the time of implantation of the developing emition the uterus Consequently the time of avalation in the menstrual cycle in woman has been computed chiefly from the condition of the corpus liteum rather than from the finding of ova in the tuber In an attempt to fill the gap in our knowledge of early human embryology the authors planned a cooperative investigation with the following object tives (1) the reco ers of human ova from the nier me tubes (2) the correlation of their condition with the men trual history and the stage of development of the early corpora lutes from which the e ova had been extruded and (3) a continuan e of the quanti tative analyses of the amount of ovarian hormone in tissues of the human ovary

Seven human ova were troovered from tuber fie or covern was obtained from a noman who was operated upon the seven as noman who was operated by the seven the seven to the mention of the presence of the seven to the seven as the presence of the seven the sev

was visible on the surface of the ovary opened the corpus luteum was found to be thin walled and to have a central cavity filled with blood tinged straw colored fluid

Among the other cases in which ova were collected there was one case in which an ovum was obtained from e ch tube Each ovary contained an early cor pus luteum. Another case illustrated the internal migration of the ovum from the left ovary to the

right tube Some of the observations made during this study indicate that menstruation without ovulation which is so common in the monkey must be recognized as occurring in woman HARRY W. TINK M.D.

MISCELLANEOUS

Giles A E The Diagnosis and Treatment of Sterility Brit M J 1928 11 647 The Diagnosis and Treatment of Forsdike S Sterility in Women Brit M J 1928 ii 648

GILES states that in the study of sterility in the female the general and sexual development of the woman and the possibility of normal intercourse of effectual reception of spermatozoa at the os exter num of the passage of spermatozoa through the tubes and of normal development of the fertilized ovum in the uterus must be considered. He dis cusses the typical puphole of marked retroversion and acute anteflexion of the uterus and the character of the vaginal discharge

For cases of under development Ciles recommends marriage and the administration of thyroid and ovarian products Thy roid extract can quite well be given by mouth but the ovarian extract should be administered by hypodermic injection. For faulty metabolism with pronounced obesity. Giles advises reduction of weight supplemented by the administra tion of thyroid Difficulty in intercourse should be remedied by digital dilatation under anæsthesia or a plastic operation. In some cases artificial insemina tion may be advi able. When there is hindrance to the entry of spermatozon into the cervical canal dilatation of the cervical canal should be carried out A glass intra uterine stem pessary should be intro duced and retroversion or retroflexion corrected Discharges due to adenomatous disease of the vigit nal aspect of the cervix (erosion) or to endometritis e pecially of the cervical type require curettage Tubal obstruction can be overcome only by surgery

FORSDIKE divides the causes of sterility into the congenital the acquired and the functional From the clinician's point of view the cases may be di vided on physical examination into two groups (1) those in which gross lesions are present and (2) those in which there is no gross lesion or no lesion sufficient to account for the condition This article is limited to cases of the second group

Twenty five per cent of childless marriages are due to the condition of the husband. The semen of 46 of 146 men whose wives came under the author s care for sternity was found to be defective

The study of a case of sterility in the female should begin with a search for spermatozoa in the vagina and the cervix following coitus

Forsdike describes the exploration of the uterus by dilatation of the cervical canal and inflation of the uterus and tubes with gas or air Without angesthesia he uses a pressure of 300 mm Hg provided the patient does not complain. If that pres sure is attained and no air passes the tubes are definitely closed. When anæsthesia is induced the pressure never exceeds 200 mm. Hg as the patient cannot warn of tension pain. With anxisthesia and the abdomen open Forsdike allows the pressure to go up to 300 mm Hg If the test is positive there is no doubt about the patency of the tubes but if it in negative it may mean that the tubes are tem porarily blocked by kinking Inflation shows only whether the tubes are patent or closed It does not reveal the site of closure. I lastic operations on the parrow part of the tube are not justified. In cases of obstruction of the tube at the fimbriated extremity operation was successful in 45 per cent but success ful results were obtained in only 10 per cent The most favorable cases are those in which the fimbria can be saved The ovary should be freed and loosely fixed in the mouth of the new ostium incision is necessary to establish a new ostium, the serous coat should be undercut so that the suture car ries the peritoneal edge over the raw surface thus preventing the formation of adhesions

The \ ray examination of the uterus and tubes is facilitated by the use of lipiodol Lipiodol has no ill effect upon the peritoneum. The technique of its use is described. In order to obtain the fullest in formation regarding the tubes an oblique roentgenogram should also be taken at the time of injection when the tube is in the uterus A second roentgenogram made a day or two after the examination will show the lipsodol in the peritoneal cavity. I ipsodol is absorbed and disappears from the peritoneal cavity in from seven to ten days. It disappears from the uterus by gravitation in one or two days but when injected into closed tubes it may produce a shadow for several months. When lipsodol is being used as a therapeutic agent 5 ccm is all that is necessary a that quantity is sufficient to fill both tubes and the uterus

Of a number of apparently normal women subsected to inflation of the uterus and tubes 31 per cent became pregnant subsequently Seven (14 per cent) of the pregnancies ensued so closely upon the inflation that the inflation and conception may be considered in the relation hip of cause and effect Lipiodol injection in sixty seven cases showed

that in twenty it cases the tubes were apparently

When the patient remains sterile for three months after inflation showing the tubes to be patent Forsdike makes an examination with lipsodol and delays further procedures for nine months. When inflation shows the tubes to be closed he attempts a plastic operation on the tubes if in investigation with lipsoid the obstruction is found to be in the ampulla. If the sterlity still persists after all this has been done only the ovaries remain to be considered. These organs should be examined by abdominal operation.

The conditions in the ovaries which may be ex pected to hinder conception are (1) a thickened tunica albuginea () cystic ovaries (3) cysts of one or both ovaries and (4) veils of peritoneum which completely shut off the ovaries from the peritoneal Incision and scarification of the thickened tunica is likely to induce a more extended infection with the formation of additional adhesions, and resection of a cystic ovary merely increa es the fibrous tissue already present. Cysts of one or both ovaries in contradistinction to existic ovaries exert a restrictive influence upon successful ovulation. Forsdike has operated upon six cases of small unlateral cysts in which the duration of sterility was three five five six seven and seven years respectively. In four, pregnancy resulted within three months

Forsdike believes that the condition usually described as incompatibility or selective sterility is a combined relative sterility in which the fertility of both the male and the female is low

ROLAND S CROY M D

Polak J O and Tollefson D G What Can We Learn from a Study of Mortalities? Am J Obst & Gyncc 1918 xv1 600

The authors have analyzed the mortality in the Long Island Collere Hospital in the past five y ears. The total mortality among 4 270 cases admitted was 138 deaths Forty three of the deaths occurred in cases not treated surgically and therefore are not considered in the discussion. In the 312 cases operated upon there were 95 deaths. The fatal size can be attributed to one of the following

cause (t) an omission in the history or hephysici or laboratory examinations or maintenerstate, dithe findings (s) insidequate pre-operative prigar item (s) cardiac embarrassiners claused by the geography of the high Trendelenburg position in cases with a low blood per sure (s) book caused by the plonged use of the Trendelenburg position in case with a low blood per sure (s) too much surpris one time (6) too great prolongation of the operation (7) operation performed following pris quick control (7) operation performed following pris quick control (8) operation in the presence of authorities (1) operation in the presence and the infection with a broad control and the presence of authorities (1) operation in the presence of a control and the presence of the control of the presence of the pres

The gross operative mortality in the five year period was 29 per cent. The fatal cases are divided as follows.

I Cases of malignancy in which the abdumes

was opened to confirm the diagnosis and an integrable condition was found In this group there were 25 cases
2 Finergency cases This group included 3

cases of acute appendictis with diffuse pants LL 11 cases of sepsis 2 cases of gall bladder disease and 1 case of ruptured ovarian c) st

3 Cases of elective operation In this group there were 52 cases Of 2 patients subjected to a vaginal operation 7 duel from intercurrent protrionna two weeks later and the other from acute suppurative peritoritis following treatment with radium

The authors state that a review such as better presented is a sad commentary on surgeal put ment and surgical care. They corclade that makes the sufficient attention and the surgeature and sufficient attention are operative study, and can make the fact that surgical judgment or a be developed only by pathological study of the living veloped only by pathological study of the living the surgical surgical surgeature and the surgical surgeature and the surgeature of the surgeatur

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Siddall A C. The Hormone Test for Pregnancy Report II J Am M Ass 1928 xc1 779

The hormone test for pregnancy is based on the effect of the injection of grand femile blood serum on the uterus and ovaries of white female much the total weight of the mouse divided by the weight of the total weight of the mouse divided by the weight of the uterus and ovaries gives a ratio which serves as an index. If the ratio is above 400 the test is negative for pregnancy whereas if the ratio is less than 400 the test is possitive.

Sexually immature mice react differently than sexually mature mice. In the mature animal there is an enlargement of the ovary associated with the formation of corpus futeum. In the immature animal

there is an enlargement of the uterus

The author believes that uterine enlargement is caused by an ovarian or a placental bormone. The ovarian integement which occurs in the mature animal is probably due to the anterior pituitary hormone.

In 133 cases in which the hormone test for pregnancy was used there were only 6 erroneous results. This test has been employed also for the qualitative determination of the potency of commercial liquid extracts of ovary and anterior lobe of the pultutary elaboration. Case it Days M.D.

Lobre F and Dalsace J Six New Cases of Free nancy Following Exploration of the Tubes by the Injection of Lipidodi (Six nouvelles grossesses consecutive à des explorations tubartes par injection de i piodol) Bull Soc d obst d de gynte de Por 1078 XVI 152

The authors add six new cases of pregnancy following the injection of indized oil to two cases previously reported. That the pregnancies were not merely coincident with the exploration of the tubes it evident from the fact that the patients had remained sterile after other methods of treatment. The case records were briefly as follows.

Cass: Thepatient was thirty four years of age Meastration was established at the age of fifteen tears. It was painful but others a normal. The patient had been married agily lears but had never patient had been married agily lears but had never patient and the second distations and a trackelo-patient than the patient of the patient of the patient of the patient became pregnant four months after the eximination.

CASE 2 The patient was thirty) cars of age. Men struation was established at the age of fifteen y cars it was painful but otherwise normal. The patient had been married for two years and had never been pregnant. An insufficiation in 1927 was negative. An

injection of lipiodol in 1928 demonstrated permea bility of both tubes Pregnancy began two months after the examination

The patient was a noman twenty, five years of age. The patient was a noman twenty, five years of age Sph had been married one year and had never been pregnant. Six attempts at insufflation fashed to demonstrate permeability of the tubes. An injection of lipsodol revealed a small uterus in back ward and lateral displacement. The tubes were short and slender but patent. Pregnancy occurred two months later.

CASE.4 The patient was thirty, years of age. She been mirred eight years but had never been pregnant. Menstruation was entirely normal. Di latations and pelvic massage were without effect on the stenhity. The injection of lipiodol showed extreme lateral flexion of the uterus and permeability of both tubes. The patient became pregnant two

months later
CASE 5 The patient was thirty six years old and had been marined since 1970 Mensituation was normal During 1973 two spontaneous abortions occurred in the sixth week. In 1974 the patient had a full term normal pregnancy but she had not been a full term normal pregnancy but she had not been been served to the server of the se

CASE 6 The patient was thirty four years old and ab been married mine years. Mensituation was normal Abortions occurred in 1922 and 1927 in the sixth week and fifth month respectively. Updora tion with lipiodol was performed to determine the cause of the abortions. The uterus was markedly flexed to the left and retroverted. The right tube was greatly elongated and the left tube short and scarcely permeable. Pregnancy occurred the next month after the examination.

In Cases 2 and 3 lipiodol injection demonstrated permeability of the tubes which could not be obtained by insufflation and lipiodol injection on the same patients the authors found seven who were negative to insufflation but positive to lipiodol

In Cases 3 and 4 the tubes which were at first blocked became permeable site a pressure of 30 mm of mercury had been manetained for from twenty to thirty minutes. During the course of the procedure colic nausea and faintness frequently occur but if the pressure is controlled by an accurate ma nometer these symptoms should not interrupt the mirection.

The dangers of the method are slight In 150 cases there were no accidents. The incidence of successful results in the treatment of sterility cannot be deter mined with certainty In 63 private cases treated in this way there were 7 pregnances whereas in 52 hos

pital cases there n is only I pregnancy. It is possible however that some of the latter group of patients were referred to the maternity wards of the hospi tal and thereby escaped observation

ALBERT F DE GROAT M D

Frey E and Lardi F Heart Discase and Preg nancy and Abdominal Cosarean Section under Local Anæsthesia in Cases of Heart Discase (Herziehler und Schwangershaft und de abdominale Schnittentbindung in Lokalanaesthesie bei Herz fehlet) Zischr f Gel i isl u Gangek 1928 xci 1 1

On the basis of the literature the authors first discuss the influence of pregnancy and labor on the normal and diseased heart and the prognosis and treatment of beart disease in pregnancy. They then report the experience of the Zurich chair in a o66 deliveries occurring in the period from 1020 to 10 6 among these cases there were 74 of pregnancy com plicated by heart discuse

In 1 cases the pregnancy was interrupted thera neutrcally during the first half in 43 cases delivery occurred spontaneously by the natural route at term and in 10 cases on arean section was done under local anæsthesia in the second half of preg

nancy or during labor

The cases in which the pregnancy was interrupted included 3 cases of mitral insufficiency 2 cases of mitral stenosis plus insufficiency I case of mitral stenosis and 6 cases of other heart lesions. In 10 of these 12 cases abdominal casarean section with tubal steribzation was done under local an esthesia All of the women except 1 were discharged with compensation and free from symptoms

The cases in which delivery occurred spontan eously included to with mitral insufficiency 13 with mitral insufficiency plus stenosis 6 with mitral st nosts and 5 with other heart lesions. In 6 cases there were shight signs of decompensation. All 42 mothers left the clinic with full compensation and The favorable course in the without symptoms cases with mitral stenosis was noteworthy

The cases of abdominal delivery included 8 with uncomplicated mitral stenosis 5 with mitral stenosis plus insufficiency 2 with agric it sufficiency plus mitral stenosis a with mitral insufficiency and a with congenital heart disease Signs of decom pensation were present in 13 of these 19 cases All of the women had complete compensation after the puerperium and were without symptoms when dis-

Attention is called to the very high percentage of mitral stenoses among the lesions that made casarean section necessary (19 per cent) On the other hand there were only a case of mitral in sufficiency in this group As spontaneous delivery occurred in 19 cases the author believes that the routine interruption of pregnancy in cases of mitral stenosis which is demanded by many obstetricians is not justified. He admits howe er that mitral stenosis must be regarded as decidedly graver than LABOTE (G) other heart lesions

Engelseaard If d U A A Case of B lateral Extra Uterine Pregnancy (Lin Fall von doppelsetter Extrauterin raviditaet) Med res 1923 gir 10

The patient whose case is reported was a woman thirty three years of age whose first child was born eight years previou ly by normal labor following a normal pregnancy Menstruation had always been regular except that two years before there was an interval of seven weeks between two nerods during which there was abdominal pain followed by sight bleeding for five days

On the left side beneath the umbilious the abdomen was distended and a circumscribed partial resistance was found. The uterus was slightly en larged and displaced to the left Behind the utrus slightly to the left a sharply demarcated uneven firm and tender tumor could be palpated The report of the left adnexa was not punful on pressure. The tight adnexa were sensitive to pressure and pr sented a soft resistance A diagnosis of extra

uterine pregnancy was made

Twenty cubic centimeters of lipiodol were in jected for metrosalpingography The roentgen to ture showed an enlarged atom uterus displace toward the left In the left tube there was a liquod shadow the size of a nea and on the left side above the tubal angle the skeleton of a fetus was dolin'thy recognizable The length of the spinal column was 6 5 cm and the total length of the fetus about 16

cm The right tube was clored and the uterus atomic Laparotomy revealed a tumor about the size of a fist in the lower part of the abdomen on the kit side This tumor was connected by adhesions to the omentum the left adnexa and the uterus and was found to contain a mummified fetus and an atrophic placenta On the right side there was a freshly

ruptured tubal pregnancy

The tumor with the old abdominal pregnance was removed and both tabes were extirpated Convalence was uneventful

Guillemin A Acute Appendicitis with Rupture of a Bilateral Tubal Pregnancy (appendent aug e et rupture de grossesse tubaire bilatera' ? Built Soc d'obst et de gynte de Par 1928 Ton 649

The case reported was that of a noman twerty three years of age After a few days delay of a menstrual period the patient had taken an emmeno gogue and thereafte the bleeding had la ted so days Two days later she suffered an attack of severe pain in the right lower qu. leant of the abdo men which was associated with rigidity and a ten perature of 102 deg ees F and confined her to be for three days A week later she had another attach with more severe symptoms in the region of the appendix and a slight discharge of blood from the vagina This attack was of short duration but after another seven days the pain recurred with symptoms of shock At this time there was no fever Examina tion revealed rigidity and tendernes in the right lower quadrant of the abdomen and distention of the cul-de sac of Douglas

Operation disclosed a large quantity of blood in the pelvs and a required pregenney in each tube Both owners contained a corpus luteum. The appendix was greatly influend and moderately adherent Blisteral salpingectomy was performed with preservation of a stump of the right tube and the appendix was removed. Uneventful recovery resulted. Addart FD Groot MD

Bompiani R and Stilon V Experimental Study of Premature Separation of the Placenta (Ricerche sperimentali sul distacco intempestivo dilla placenta) 118 tial di ginec 1928 vii 457

Experiments were made on rabbits to determine the cause of premature separation of the placenta A renal lesion of the type of interstitial nephritis in man can be brought about in rabbits by the prolonged intravenous injection of sodium oxalate. A few injections of this substance cause changes in the kidney which are chiefly hæmorrhagic. If such in jections are given to a pregnant rabbit near term the pregnancy may be interrupted and necrops) may show a retroplacental clot which indicates be ginning detachment of the placenta from its uterine attachment. If pregnancy occurs in a rabbit with a renal lesion of the type of interstitial nephritis and persistence of the lesion is maintained by repeated injections of sodium oxalate abortion is very apt to result and not infrequently the fetus shows signs of mummification

Verbritis of the interstitual type mas cause premature detachment of the placenta and the forms ton of a retroplacental clot. In these cases in a dition to free or congulated blood in the cavity of the uterus there may be small punctate or stellate har orthages outside the zone of insection of the placenta of the other surface of the mucosa and on the serous of the contract of the surface of the mucosa and on the serous of the contract of the surface of the surface of the obsess secult harmorrhages and areas of inflaction in the placenta itself. The same phenomena are seen with even greater frequency and seventy in rabbuts with interstitual neghritis which have died from in Fettons of extract of placents.

The authors experiments show the great import ance of renal lesions in causing premature separation of the placenta whether such lesions precede or begin acutely during the course of pregnancy AUDREW GURGEN MD

reit I Two Observations of Placenta Prævia Réfera Durisbow Dudgnosis Symptoms. Treatment B Lobow Dudgnosis Symptoms. Study of the Iower Uterine Study of the Iower Uterine Sedment (Dour observations de placenta præ in reidex penisant lacconchement d'agnostic chin reidex penisant lacconchement d'agnostic chin reidex penisant lacconchement d'agnostic chin des penisant lacconchement d'agnostic chin formation du segment inference d'agnostic chin 1938 Xum 117.

I lacenta pra via reflexa has rarely been diagnosed chinically

The first case reported by the author was that of a woman who developed metrorrhagia a month before term. The loss of blood continued but was

very slight At the onset of labor the cervix was 2 cm long and admitted a finger tip. After ten hours it had changed little if at all and contrary to expectations there was no bleeding. Careful examination revealed a thick membrane covering the internal os through which the presenting part could scarcely be felt. I osteriorly and laterally the finger could be passed between what was believed to be the placenta and the uterine wall. Anternory and to the right the membrane was the sensation of the could be considered the could be considered to the cost bedienous surface of the placenta but of the felta surface.

Because of a rise in the temperature a low casarean section was performed. The placenta was found implanted on the anterior and right wall of the uterus its lower border covering the internal os. After removal of the placenta, the membrane of om thick which had been palpated during labor.

was identified as the decidua reflexa.

In the second case reported the anatomical find ings were nearly identical with those of the first case. There was no bleeding during labor and the characteristic vaginal findings permitted a clinical diagnosis. This patient also was delivered by low creasary in section.

So far as the author is aware these are the first cases of placenta pravia reflexa to be diagnosed during labor

In neither of the case, was the cervix appreciably effaced. In the first case the lower uterine segment was little developed but in the second it was perfectly developed. The author concludes that the effacement of the cervix contributes nothing to the commation of the lower segment. He believes that the lower segment evolves from the corpus since in all low cestrean sections for placenta prawa the allow cast contributes of the placenta. This is true because the placenta prawing placenta. This is true because the placenta prawing practically always primary inscrited in the body of the uterus and covers the internal os which does not change position until labor begins.

In support of his theory the author cites also the following facts

1 In primiparse the vaginal portion of the

cervix is often nearly completely effaced but a cervical canal of 3 or 4 cm is conserved a In partial placenta prævia artificial rupture

of the membranes results in ascent of the placenta 3. When the area of detachment of the placenta in a case of total placenta previa is measured it is found to be much shorter than the surface of the

4 In a case reported there was a well developed lower segment with a cervical canal of 4 cm The conclusion is drawn that the uterine muscula

ture ascends during pregnance and labor and that the ascent is independent of the effacement of the cervix. The mechanism is explained by the disposition of the muscular layers of the uterus which allows the long external layers to be di-placed upward without greath affecting the short deeper layers. This muscular arrangement explains also why the placenta does not become prematurely separated during normal labor.

ALDERT F DE GROAT M D

Cathala V and Bardy J Can the Age of a Few Benefit of the Bonese of Daley ment of the Bonese A Study Based on the State of the Centers of Ossification in Single Orum Twins (Lage d on fexts peut 1 dera fix peut 1 derage de devloppement de son ossistations for the set of the State of the Stat

From a companson of the ossification centers of single ovum twins the authors draw the following conclusions

I When the twins are equally developed the centers of ossincation are often but not always of the same size.

2 When the twis are of unequal development the centers of ossification are sometimes of the same size but more often are unequal. The inequality is proportional to the difference in the general bodily development Albert T. De Grost M.D.

Hofbauer J The Structure and Function of the Ureter During Pregnancy J Urol 1928 xx 413

Pyelograms show that a moderate degree of by dro ureter is an almost constant concomitant of pregnancy. In examinations of too normal women during the seventh to minth month. Pugh noted that in 80 per cent the action of the ureters was shoresh

In a study of the morbid anatomy of the urinary tract in pregnancy the author found definite hyper plastic and hypertrophic changes in the pelvic por tion of the ureter both in the musculature and in the connective tissue. These changes were par ticularly pronounced in the juxtavesical nortion where the ureter passes through the parametrum Often the ureteral sheath equalled or exceeded the diameter of the ureter itself and the increased Shrophastic tissue between the hypertrophied muscle bundles created a rigid structure with the lumen narrowed The striking feature of the intravesical portion of the ureter was the marked development of connective tissue and hypertrophy and hyper plasta of muscle bundles Therefore histological plasta of muscle bundles evidence strongly indi ates that urinary obstruction in pregnant women is caused by certain anatomical conditions in the juxtavesical portion of the ureter due to hyperplastic and hypertrophic changes in the constituents of the ureter. I wall

Recent experimental work has shown that a definite necrease of bile and occurs in the blood of pregnant worren. Bile saits have a depressing effect upon the tonus and contraction of the uternor medical aimost comparable to the effects of narcotus. They have a smiller effect on the small intestines. In exp. ments on pags surfers the author demon strated that solding hypocholate even in the proportion of 1 2000 causes either a dismunition in the amplitude of contractions a prolongation of the

intersal between contractions or both Moreas addreams (1 to coco) not only restores the sound contractions of the ureter but often indoces more rapid persists. Epiderin is a less potent unitant. In the pregnant pag the ureter shows a baker degree of sensitiveness to sodium glocally amaller doves being capable of prolonging the the terrals of contractions and a of entire the terrals of contractions and a of entire the sensitive terrals of contractions and a of entire the sensitive terrals of contractions and a of entire the sensitive terrals of contractions and a of entire the sensitive terrals of contractions and a of entire the sensitive terrals of contractions and a contraction and a contractions.

iting them The depressing effect of bile salts may offer an adequate explanation for the loss of ureteral tone in pregnant women. An acceptable basis for the interpretation of such phenomena is afforded by the recognized tendency of bile salts to lower surface Abundant clinical evidence indicates that the upper and middle end of the ureter is more responsive to adrenalin than the lower end On the other hand the rather transient stimulating effect of pituitrin is more marked on the lower end of the ureter Therefore it may be inferred that the alministration of adrenaliz constitutes a rational procedure in the treatment of pyel is in pregnabil Lvidence is at hand as to the value of pituitna for However further exper ne 18 this condition necessary to determine which of the two hormoeic principles is the more effective

ALICE F MAYNELL MD

Duncan J W and Seng M I Factors Predispoting to Pyelitis in Pregnancy Am J Chi & Grace 1928 Xvi 557

During pregnancy physiological force settled to the ureter cause obstruction to ureteria deviating. Dilatation of the inght ureter is central draining. Dilatation of the inght ureter is central the inght cannot be settled less common. The left ureter and great pleebaged less common. The left ureter and great pleebaged is the dilatation in a marked there and by demonstrate the dilatation. The left ureter and great present of the dilatation o

Thus the output of the control of th

Loeser A Forty Five Cases of Pregnancy Toti cosis Acidosis—Treated with Insulin (4, 1 a lie v n S hwangers haftstocket—Acid war mt In ul n behandth) Ze 1 albi f Gynack 1928, lo 492

The author's forty five cases of pregnancy toxicosis which were treated with insulin included

thrty six cases of hyperemests four of pregnancy detractions and five of clampsian and celampsia for the clampsian and clampsian of the presences were divided clinically makes the groups. The eighten cases of the first order groups. The city for a clampsian only print a few pieces of load sugar were given and half an hour later 5 units of insulin were an amastered with first junce. The dose of insulin was gradually increased to 15 units twice a day. There were no failures in spite of the fact that throughout the treatment the patient was allowed to be up and about

In the ten cases of the second group everything that was taken by mouth was younted. Therefore the sugar was given by rectum. Half an hour later to units of insulin were administered. At the end of eight days, the patients condition was so much improved that the sugar could be given by much lips continuing the treatment for at least three weeks, it was possible to prevent recurrences in every case. The dosage never exceeded 40 units of insulin with 10 t 2 mm of glucobe per unit.

The third group included cases of uncontrollable vomiting with considerable loss of weight and very poor general condition. In these glucose and insulin were given intravenously in amounts of about 30 units. There were two failures which are described.

ın detail

In the cases of eclampsia the action of insulin therapy was rapid and certain as the author had idemonstrated previously. Although he frequently agree insulin alone which in mild cases of eclampsia is sufficient to increase the glycogen content of the hier the tissually recommends the simultaneous and ministration of glucose (from t to 2 gm per unit).

Existing (5)

Berman S The Phenoltetrachlorphthalein Test of Liver Function in the Late Toxamias of Pregnancy Am J Obst & Gyncc 1928 xv1 410

Berman has treed to differentiate hepatic from read tozema by using the phenoitetrachiorphiha lein test of liver function. The dye was injected intravenously o mgm being used per kilogram of body weight. Blood was then withdrawn and allowed to stand until it clotted the serum was alkalinized with 5 per cent sodium hydrowde and the resulting colors were compared with standards.

In normal pregnancy from 3 to 5 per cent of the object as recovered in fifteen minutes from a trace to 1 per cent at the end of a hour and from nothing to a trace at the end of two hours. The upper limit of the normal may be considered; per cent after fifteen minutes 3 per cent at the end of an hour and 1 a slight trace at the end of two hours.

The test had been used in 118 cases. Retention of occurred in 3, 101 the 34 patients with retention of died and of the 84 without retention 3 died. Con viulsions occurred in 10 cases with and 10 cases without retention and in each of these groups there were 3 deaths. As far as could be determined none of these patients had had chronic nephritis.

The amount of dys retention was found to be no moter of the seventy of the disease and of no prog nostic value. Although the study yielded interesting information it failed to offer suggestions regarding the management of cases of towarms of pregnancy. The treatment and prognouss depend entirely on the differentiate the nephrine from the hepitic towarms of the control of the case reviewed it was found that uncomplicated subsequent pregnancies had occurred in each group. E. L. Consert, M.D.

LABOR AND ITS COMPLICATIONS

Conomareff A Caesarean Operations in Russia 1756 1924 (Op rations cessivenies en Russic 1,56-1024) Gynte et obst. 1928 1911 103

This article is a resume of the history of carsa rean section in Russia presented with numerous

statistical tables
The first successful casarean section was per

formed by Erasmus of Pernov in 1756 and the second by Zommer of Rigain 1756 In 1810 Zommer s patient was operated upon a second time for rupture of the uterus. This is the extent of the eighteenth century statistics.

In 1812 Stolz introduced suture of the uterine.

In 1874 Stolz introduced suture of the uterine wound In 1877 antisepsis was applied to the operation by Novitsky who washed out the uterine cavity with salicile acid solution and closed the uterus with sutures impregnated with phenol Antisepsis did not enter into general practice until 1851: Up to that time 20 operations had been per formed with 17 maternal deaths

The antiseptic era lasted until 1890 During this time the diagnosis management and operative technique made great progress. The introduction of asepsis about 1890 placed the casarean operation on

its modern basis

The ten vear period of antisepsis saw the introduction of catquistutures and the elastic tourniquet. Sixty one operations were performed with 30 deaths a mortality of 49 3 per cent as compared with the former mortality of 88 per cent. The conditions of Russian life being considered these figures are to be regarded as quite good.

After the introduction of asepsis the operative indications were gradually increased. In the period from 1891 to 1900 the number of operations doubled and many operations were performed for relative indications. At the same time the conservative cassarean section of Sanger and sterilization of the patient became more widely practiced. Sangers operation was performed op times with a mortality of 17 per cent and 10 ror o operation 25 times with a mortality of 2 reper cent.

In the twentieth century there has been further progress due in considerable part to the establish ment of hospitals and obsettical centers. The vear 1908 saw the introduction of the extrapentioneal and vaginal method which for certain indications competed with the tran peritoneal operation.

In the period from 1901 to 1914, 800 operations were performed with a total unotatily of 7 per cent. This relatively high figure is explained by the fact that the operation must offen be performed on patients who have been long neglected or who have been examined by midwise without the slightest been examined the product of the patients were operated using a significant of the patients were operated by the patients of the pati

ALBERT F DE GROAT M D

Heidier H and Steinhardt B Is Manual Extraction of the Placenta a Very Dangerous I rocedure? (¿Es la estracción manual de placenta la intervención ostétrica más peligrosa?) Rev a gent de obst y gir e 1928 xii 63.

As a re ult of much experience the authors conclude that manual extraction of the placenta constitutes a serious procedure. It should never be at tempted until the structest indications have been established its danger is greatly increased by delay. It should be practiced only with the most perfect technique and under the most pred assessing.

In a series of collected cases the mortality was 46 per cent. The high figure is ascribed to ignorance of the danger involved delay of the operation to suit

the surgeon's convenience and sepsis

Job Acute Postpartum Dilatation of the Stomach (Dilatation a us de l'estomac après un accouche ment) Buil Soc d'obst et de gynée de Par 1928 xvii 6.0

The case reported was that of a para ii thirty four years of age who gave buth spontaneously to a dead The cause of the fetal death was not deter mined When the placenta was expressed two hours after delivery the patient complained of pain in the right side of the abdomen. Thirty six hours later the physician was informed that she had been vomiting almost continuously since delivery The abdomen was then greatly distended and very painful gas or faces had passed and only a little urine had been youded. The temperature was normal and the pulse 110 A consultant who was called noted that the distention was most marked in the upper left quadrant of the abdomen and advised lavage of the stomach

The exacution of large quantities of fluid and gas was quickly followed by improvement in the general condition Complete recovery resulted in a few days. ABERT D. D. GROOT M.D.

days Albert F De Grout M D

PHTERPERIUM AND ITS COMPLICATIONS

Findley P Puerperal Infe tion Olio St. t. U. J. 1028 XXIV 773

The author states that rest hance to postpartum infection depends upon (1) the protecting zone of round cells in the decidua (2) the infiltration of the uterine wall with phagocytes (3) the Hofbauer macrophages of the parametrium (4) the retuculo

endothelial system and (5) the defen we qual iss of the blood

All conditions which prolong labor neers take re peated vaginal examinations and manual or in strumental interference or cause retention of the lochia will increase the mortality and morbidity tite

The gonococcus is responsible for from 5 to 10 per cent of cases of puerperal sensis

The curette and the intra utenne douch haves place in the treatment of pueperal sepais. Boesti remains should be removed existional with a cental forcept on the finger. Hysterectons whole be performed only for sloughing fibroids or ruperal uterus. When done by experts ligation of the pelvic veins has resulted in recovery in 50 per cet. cases of 56,595. Immuno blood transfusion is of cases of 56,595. Immuno blood transfusion is

valuable remedy

Recovery rarely ensues when more than fifty bacteria are found to the cubic centimeter of blood When the number of bacteria increases in spite of treatment the prognosis is exceedingly grave. The longer the patient lives the better her chance of recovery.

Americal Wilstams UB.

Young J Maternal Mortality from Puerpeal Sepsis An Analysis of the Factors of Contagion Trauma and Auto Infection Ed sh 14 M I 1928 vvev Edinburgh Ob t Soc 138

The total maternal mortality in England as Wales in 1967 was 5 13 and the sepis tare 1 of 12 000 hvv births. This shows that sepis infection by far the most important cause of maternal fall it is of importance also in chronic morbidit. He is of importance also in chronic morbidit about 60 per cent of hospital given cological cases are decided to thiddening and many of these are the result of infection.

The causes of puesperal infection are contago of training and auto infection. Auto infection Auto infection Auto infection are considered to more or less distant foor. It is short of the contago of the

Forderms infection in hospital is best precested by the early isolation of suspected cases in a sprante building. By scrupulous modern methols the dan ger of contact infection can be practically chimianted

The fact that the naternal of each are has been fittle deere used over a period of or hundred years spite of method to maximum has been sarried to spite of method to maximum hid dever. It is a specifically a spite of the spite

the present time may be justified by the lessened feness of somen for childbearing

It is admitted that trauma is the most important cause of deaths from sepsis. For this however the med cal attendant is not entirely responsible. For the reduction of maternal mortality improvement in maternity practice based on a midwife doctor com bination is necessary. The phy siological management of labor should be encouraged and the abnormal cases seen early by physicians with special training COORDER C SCHAUFFLER M D

NEWBORN

Steinforth T The Fate of Children Born Pre maturely (Das Schicksal fruehgeborener Kinder) /entraibl f Gynack 1928 lu 133

In an investigation of the fate of children born prematurely in an obstetrical hospital, the author found that all of the e which weighed less than I 200 gm at the time of birth died during the first ten days after delivery. With an increase in the weight at birth the mortality decreased considerably since of the infants weighing from 2 000 to 2 200 gm only It 8 per cent died during the first ten days Of a total of 51 infants born with a maximum

weight of 2 300 gm 78 (31 per cent) died in the hospital and 173 (60 per cent) were discharged in good condition. The smallest child which has now been under observation for six and three fourths ears weighed 1 380 gm and was 40 cm long at birth and was born after a gestation period of two hundred and thirteen days. When last examined it weight 1 25 kem measured 1 18 meters in length and was very well developed both mentally and physically

Information was obtained also with recard to 108 of the 173 infants that were di charged from the hospital in good condition. Twenty hee of these have died Seven died in the first month after their d scharge 12 died in the tirst vert of life from gen eral weakness or gastric and duodenal catarrh 2 died in the second year and 3 in the third year of life from pneumonia and one died at the age of four and a half years from meningitis three of the survivors were examine I subsequently and reports regarding to were received by mail

The author concludes that the mortality of chil dren born underweight who have pas ed th first year of life is not much greater than that of chil dren born at term since of 80 prematurely born children who passed the first year of life 4 19 5 per cent) are still alive

Steinforth found at a that the majo it; of prematurely born children had made up the loss in height an I weight by the time they were five or six Years old

In general no defect in intelligence was demon strable in the prematurely born children who were

followed up. One child which was born sponta neously with a weight of 2 000 gm and a length of 46 cm developed Little's disease in the fourth month of life. The author believes that the subsequent occurrence of disturbances of the central nervous system in prematurely born children is not as frequent as is assumed by neurologists and psychiatrists Hanne (G)

MISCELLANEOUS

Dogliotti V Roentgen Study of the Bladder In Obstetrics and Gynecology (Ulteriore con tricia e ginecologia) Riv il il di ginec 10 3 vii <25

The author has used three methods of studying the bladder roentgenologically the ordinary method with an opaque medium the combined method of Vallebona and cystoroentgenography In the com bined method the injection of from 20 to 30 c cm of barrum sulphate into the bladder is followed by the insufflation of from 100 to 300 c cm of air Before the roentgenogram is taken the patient is made to assume various positions so that the opaque medium will be spread in a thin layer over the mucous mem brane. This method instead of showing merely the outline of the blad fer reveals the entire death of the organ so that any body projecting from its walls is demonstrated

A number of roentgenograms of the bladders of normal and pregnant women are presented. The bladder undergoes changes in form and position during pregnancy that in general increase in degree with the duration of the pregnancy. However, these changes are not constant. In most cases the bindder in pregnancy is semilunar or bowl shaped. The form of the bladder varies also in gynecological dis eases. In cases of fibroma the changes are typical and similar morphologically to those associated with pregnancy Inflammatory processes of the uterus and adnexa generally do not cause changes in the blad fer picture

Olivia has reported that in generological opera tions he has often found the bladder in such a high position that operation was difficult. The author never obtained roentgenograms showing the bladder in a very much higher position than normal. This was probably due to the fact that the women he ex amined did not have the perineoplastic or perive ical inflammations which were evidently the cause of the disease in the operative cases

Dogliotti often found the ordinary method of fill ing the bladder with opique medium sufficient as in many of his cases there was considerable deformity of the blad ler. In ca es in which the changes are only slight the combined method has proved su perior to the ordinary technique

AUDRIAC MIRCE MID

GENITO URINARY SURGERY

ADRENAL KIDNEY, AND URETER

Moore R A The Circulation of the Normal Human kidney in it Reco d 1928 vl St

Following a brief review of the literature on the circulation of the human kidney the author de scribes the technique by which this circulation has been studied and gives some of his own observations

He says that the portion of kidney drained by a propilla site vascular unt of the kidney. All ve sels of the kidnes from the renal actery itself to and including the alferent vessels of the glomeruli are of the type of arteries which do not anastomose with exchange the control of the control of the control schemin hererosis of the tissue be ond in case, they are occluded. The vas effectens of a glomerulus as distributed in general to the tubules of that glomerulus. All blood entering the kidney except that distributed to the hilus structures and possibly a few small vessel to the cortier passes through a left of the cortier passes through a or the attended for extra Hence the kidney exceptance.

The arteriola rectre have a double origin in part from the year efferentia of the border zone glom erul; and in pirt as a continuation of the vessels of the pars indiata Under no circumstances has a arteriola recta been seen arising from a vessel con tining blood which has not previously passed through a glomerulus. There are no direct connections between the arteries and veins. The arcustarities of one unit do not anastomose with the arcusta arteries of the additioning vascular units. In

is primarily a glomerular circulation

some human kidneys there are direct branches of the arcuate arteries which pass through the cortex to the perinephric tissue Join G Chertham M D Davis J E The Surgical Pathology of Malformations in the kidneys and Ureters J Leol

1918 x 183
The author has made a study of twenty two cases of indateral polycastic ladines. In eight cases multiple deformaties other than those of the ladiest consistent. The youngest patient was twenty or an early of the consistency cases of age and the olders start, five years. There patients were blood relatives and stated that a diagnoss of congenital bilateral polycytic kidney had been made also in the cases of other members of their lamiles in one case subjective symptoms were noted from early childhood to the time of death at the age of thirty two years.

Davis draws the following conclusions from this investigation

r Inherited protoplasmic insufficiency is spe cifically expressed by complete differentiation in nephron and their surrounding stroma The protoplasmic insufficiency is manifested chiefly by delayed differentiation
 The morphological evidence of this structural

delay is identical at all ages

4 The histological diagnosis is made by recogning mesenchy mal stroma in which nephron units are in different stages of delayed differentiation. The subcapsular zone gives the earliest evidence of both developmental delay and cystic degeneration in kidneys liver or other organs.

5 The growth impulse differentiation and essite degeneration are not identically timed in both kid neys nor in the different parts of organs involved.

Though F. Fixed M. D.

Willam R J A Giant Renal Calculus with Epi thelioma in a Horseshoe Kidney Br ! J Surg 1928 xvi 317

The case reported was that of a man fifty-wixers of age who was admitted to the hospital complaining of severe pain in the right theoretial space discoloration of the urine increased frequency of unnation and loss of weight and giving a history of painles hematuria for three days in May 1926

On physical examination a swelling as a wishle to the right of the unknown on physicae has its month of the unknown of the physical and the physical and the physical and the physical countries with physical and physical and the muscle at the level of the unbilicus. In the area of the palpable swelling x ny examination shored large dense shadow hothing else of important was noted. The findings of phylography were all suggestive of horseshoe kidney. The function of the composite Lidney was good.

Operation revealed a horseshoe kidney contain ing in its right pelvis a large calculus puruleat debris and clotted blood. The calculus weighed oz 80 gr. The patient died the day after the oper

ation of sudden cardiac failure

and the second the lower poles of the lower poles of the host poles of the host poles of the host poles of the lower the host poles of the lower to the acrts and research and let unter has been preserved. The front view of the specimen shows a normal looking lelt pelva and ure ter. The anterior part of the right pelva with ureter has been removed. Both ureters he pind the treatment of the host poles of the upper part of the right kinds of the host poles of t

the left half of the horseshoe kidney Microsection shows a definite carcinomatous condition infiltrating the kidney substance from the pelvis The cells are epithelial and of the transitional or squamous type MARIECT FUETZER M D

Scholefield B G Renal Tuberculosis The Heal ing of Tuberculous Nephrectomy Wounds J Urol 1028 33 345

Following nephrectomy for renal tuberculous not more than 40 per cent of wounds head by primary intention. In the remaining cases either a sinus persists for many months or the wound breaks down completely and requires secondary suture. In the sulhors cases sunses were more common in those to which at operation the kidneys appeared very title diseased than in those in which extensive cas exton was present. The wounds were drained at operation only when they were thought to be confused to the confused of the confused to t

The average period during which symptoms had been present was knewl; eight and sax tenths months in the cases which bealed as against interes and here tenth months in those in which sinuses devel oped Therefore the more acute the process the control of the process was the most important factor.

The author suggests that the snauses are due not to the continuation of an ensiting unfection but to the development of a new tuberculous process in the taumataged tussues of a patient with lowered resistance. If this supposition is correct improvement in the results is more likely to come from a study of the pittent's general health before and after operation than from any elaboration of operative tech

MacDonald S Teratoma of the kidney Pro

C TRAVERS STEPITA M D

nique

Roy Soc Med Lond 1928 ttl 1893 The teratoma reported was a hard solid irregular rounded tumor 12 by 10 by 11 cm weighing 650 gm and occupying the upper two-thirds of a hydro nephrotic kidney the pelvis of which contained a stone The cut surface fa led to show any normal kilnes. I ocalized hamorrhages had occurred tough white tissue supported areas that were cream colored opaque and friable Microscopically the bulk of the tissue consisted of interlacing bundles of lesomyomatous cells which in some areas were very similar in histological appearance to tho e of a myoma of the uterus but in other areas which correspon led roughly to the cream colored friable areas of the macroscopic description were more loosely and less regularly di po ed and more poly morphous and neoplastic in character. The myomatous tissue was roughly partitioned into lobular ma see he epta sinking in from the fibrocellular cap ule Embryonal tubules occurred in these

septa and also among the myomatous cells. They were laned with short cubrical entiblelum and supported by a meager scaffolding of fibrous tissue. They usually showed a sell defined lumen. Their number at any one point was never large the myosarromatous itssue composing most of the tumor Remnants of the runed kidney were distributed around the periphery of the tumor.

The patient a man fifty years of age lived four months after the operation. From the age of eleven years to the age of twenty four years he had suffered attacks of pain in the left loin and passed discolored urine. After an interval of treedom from symptoms he again had frequent attacks of pain and occa.

sionally voided a few small clots

Autorsy showed a large recurrence occupying the hed of the left kidney. This had spread upward be hand the perstoneum to form large soft white masses burying the pancreas and pushing the liver forward Above the diaphragm the posterior mediastinum and right thorax were filled with the growth to about one third of their extent. True metastases were few A metastasis of large size was noted in the middle of the left lobe of the liver and a small one in the manubrium A few nodules of growth occurred within the perstoneum attached to the omentum and coals of intestine in the neighborhood of the local recurrence in the left renal pouch. The right kidney the inferior vena cava and the pelvic viscera were uninvolved MAURICE I MELTZER M D

Lower W E and Belcher G W Conservative kidney Surgery 1m J Surg 1928 v 191

Lower and Belcher state that with increased preoperative knowledge of the problems presented by pathological conditions of the kidney renal surgery is becoming more conservative.

In the presence of pyelonephritis infected hydro nephrosis and ureteral obstruction surgical intervention has been replaced either completely or inpart by the use of the ureteral catheter.

In a case of moderate hydronephrosis ureteral dilatation and hidney lavage removed the infection and reduced the retention. When the patient was last heard from almost three years later he was apparently quite well.

Nephrotomy is now generally avoided if the condition can be treated effectively by pyelotomy

In the removal of a large stone through a prefotomy incision the ureter may be accidentally torn loose from its attachment to the renal pelvis. If this occurs anastomosis should be performed. In no instance has there been any errous after effect from this procedure.

An attempt should be made in all purulent case to reduce the infection as much as possible before operating especially if a nephrotomy is to be done later. In some cases such as shose with a large infected hydronephrosis and little remaining renal inseque in which a secondary nephrotomy is to be performed and those in which there is moderately good renal function and the emergency operation is

precipitated by ureteral obstruction rather than by extensive infection in the renal cortex the infected kidney may be drained satisfactorily by pyelostomy

In the authors opinion it is inadvisable to deliver the kidney through the wound for the removal of a calculus from the pelvis since in most instances it is possible successfully and safely to carry the opera tion to the Lidney Even when the stone lies in the tip of a long calyv it is probably better if the size of the stone permits to do a nephrotoms with out delivering the Lidney

It has been shown that while a half of one kidney is quite sufficient to maintain life such limitation in the amount of kidney tissue is a serious handicap When the removal of one kidney and half of the other is necessary the complete nephrectomy should be performed first so that the kidney to be resected can receive the benefit of compensatory hypertrophy

before its diseased half is resected In conclusion Lower and Belcher say that renal surgery has gone through a number of pha es At first it was quite conservative. Later it became radical and now it is again becoming conservative The authors believe that the treatment of renal lesions should be conservative whenever possible In support of this view they cite the results obtained in a number of cases in which the only treatment was ligation of the accessory vessel obstructing the ureter Two of the patients are entirely well sixteen and nineteen years respectively after the operation Cases in which the removal of part of a kidney is done constitute the most radical test of conservatism Penal resection should be performed only after very careful consideration of all of the findings in the case In all cases in which the amount of kidney tissue is subnormal because of disease or operation it is essential that the patient follow a rigid routine

I ours Gross M D

Braasch W F Stricture of the Ureter J Am M 1ss 1028 vct 1263

The incidence and the significance of pathological involvement of the ureter have not been generally appreciated until within the last few years Stricture of the ureter occurs more frequently than has been recognized but not as frequently as some observers are inclined to believe

Recent contributions concerning lesions of the preter fail to give an accurate idea of the incidence of stricture as reported clinically To determine this incidence a detailed examination of the ureters in at least 1 000 autopsies in a general hospital will be necessary The existence of so called wide stricture

is not substantiated by pathological evidence Subjective symptoms and abdominal palpation are misleading and quite madequate for the diag nosis of ureteral stricture Because of anatomical variations in the caliber of the ureter the bulb method of diagnosis 1 quite unreliable Urography is the best method of diagnosing stricture but a urographic examination requires experience in inter pretation and an accurate technique

Dilating the ureter in ca es in which there is definite evidence of a non tuberculous stricture is a justifiable procedure and frequently gives excellent Atonic dilatation of the ureter is more common and of much greater chancal againcance than has been recognized. It is usually not benefited by dilatation

Spasm of the ureter frequently offers a logical explanation of obscure symptoms relerable to the urinary tract It usually occurs in patients who are suffering from functional disturbances without an

apparent organic basis

Instrumental dilatation when employed in the treatment of ureteral spasm or as a counter initiate should be regarded as a method of physical therapy Repeated and long continued dilatations of the ureter particularly when the urogram does not show evidence of abnormality is to be deplored

BLADDER URETHRA AND PENIS

Hirsch E W The Relation of Bladder Pressure to Bladder Function J Am M Ass 19 8 xt 77

Rapid complete evacuation of urine from the over distended bladder may be followed by renal and or culatory shock. The work of lan Zwalenburg Foulds Shaw and Young Cunningham Bumpu Campbell and Scott has demonstrated the advisa bility of reducing residual urine with care Campbell concluded that the withdrawal of the first 100 ccm is the danger point. Important work in bladder pressure has been done by Schwarz Masso and Pellacanı Elliott Muller and Rose

The extrinsic factor of respiration must be con sidered Deep respiration and coughing will cau ta rise in the bladder pressure. The changes in bladder pressure produced by sensory stimuli and psychic states are due to indirect stimulation of the fe put tory center with temporary inhibition of respiration The bladder contraction is due to the periodi intra abdominal waves caused by contraction of the dia

phragm secondary to respiration

To observe the behavior of the bladder muscle under various conditions the author attached a cath eter to a water manometer and recorded tracings on Tracings of bladders artificially a smoked drum filled showed a slightly higher pressure than the e of bla iders normally distended with urine In the over distended bladder the removal of 30 c cm of unne caused a temporary drop of from 5 to 30 per cent The removal of small amounts of urme often caused a rise in the pressure. The drop-by drop method was found to be the safest and most saturactors By this method a continued drop in pressure was obtained and the rhythmic bladder waves were pre-

In the study of bladder function the neck of the bladder must be taken into consideration Pathol & ical changes at the neck may cause hypertrophy with high pressure or inhibit the bladder muscle causing low pressure In prostatitis the pressure is low even when the bladder is small while in hypertrophy with a large amount of residual urine and thickening of the bladder wall the pressure is usually high

Hirsch is of the opinion that the chart presented by Willer in his discussion of the functional pollakunas is incorrectly interpreted. He believes that the drop in pressure at 200 c cm. is due to muscle

fatimie

In conclusion the author states that determina tions of the bladder pressure will aim in the diagnosis of functional and organic bladder lessons but must be only a part of the urological caramation. They show the result and not the cause of the disease. When in hadder disturbances in women to be about the state hadder disturbances in women to receive a more about the state of the state of the state of the state witten and the bladder pressure is normal the contions in probably due to a paychic disturbance

CLAUDE D PICKRELL M D

McClintic L F The Clinical Neurophysiology of the Automatic Urinary Bladder and Enuresis J Urol 1028 xx 267

The emptying mechanism of the bladder consists of a voluntary and involuntary mechanism the former controlled from the cerebrum and the laster from the spinal cord. This gives a physical basis for the explanation of certain cases of enurses income and bladder involvements associated with merchanism of the control of the control of the control of the corpus stratum incontinence in imbeciles and about an other conditions.

When enuress is due to hypothy rodism throad extract my, be used. When it is due to a decrease in initiability or hypotonicity of the musculature pututina may be used. When it is due to a decrea e in reflex irritability in the voluntary mechanism condicatives styrchnine may be used. Funerses may be the result of loss of inhibition or local irritation falls the cises of little girls its cause may be an irritation of the glans clitters. When it is due to loss of inhibition from cerebral causes measures must be

taken to improve the general health Incomplete transverse lesions due to cerebral tumors cysts ancurisms eye strain strabismus arachroiditis circumscripta low mentality lesions of the corpus streatum mid brain lesions cerebellar lesions cysts tumors tabes and vestibular lesions (ear and canal) are never as ociated with an automatic bladder but are often responsible for incontinence enuresis or retention. A complete transverse lesion due to cord tumors injury to the cord varicose veins of the cord degenerative discuses of the cord or local arachnoiditis results in an automatic bladder Local organic nerve lesions or irritation may cause pastic bladder (so-called vagotonia) enuresis and incontinence C TRAVERS STEPITA M D

Visher J W Bilateral Vesical Diserticula at the Letteral Orifices Visualized with Lipiodol Report of a Case J Urol 1918 x2 431

Letters rarely empty into diverticula hence this case report. The patient a min twenty nine years of age, hall had a supernumerary finger, and toe re-

moved and had suffered two attacks of renal colic the last associated with the passage of a small calculus Physical examination revealed chronic prostatitis setto atthetis of the right sacro-like joint and bi

osteo arthritis of the right sacro-iliac joint and bi lateral flat foot The urine was alkaline and con tained a moderate number of pus cells Forty per cent phenosulphonephthalein was excreted in two hours Roenigenography revealed several small stones in the region of the left kidney.

Meatotomy was performed to allow cystoscopy At the site of the ureteral orifices two openings about 3 mm in diameter were found which suggested

about 5 mm indiameter were found which suggested diverticula (longitudinal folds of the bladder mu cosa). No areteral openings were observed. When catheters were introduced into the openings and sodium bromide was injected the catheters could be seen curled up in the diverticula. In the anterior urethra there were multiple structures of large caliber.

At another examination 3 oz of residual unine were found Following the intravenous injection of indispocarimine meatisecopy revealed a small amount of the dye coming out of the diverticular openings. No other openings could be discovered. The cather carried up in the diverticular drained a rather deep blue unine. In a cystogram made after filling of or of live oil and filling of the bladder with an through another catheter the diverticular were distinctly visible.

Visher has found liprodol an excellent contrast medium for the visualization of diverticula in this location as it is much becaver than water and does not diffuse with water. He states that if the liprodol is diluted as in the case reported heated and in jected with a small syringe through a rather large needle its use is simple and non irritating.

LOUIS NEUWELT M I)

Prater k A Study of Epithelial Neoplasms of the Urinary Bladder J U of 1028 xx 371

From a study of a series of cases of epithelial neoplasms of the urinary bladder Frater draws the following conclusions

I The so-called benign papilloma should be classified as an epithelioma of low malignancy

2 With few exceptions malignancy does not increase with recurrence

3 The grading of a specimen of a neoplasm of the bladder removed extoscopically can be relied upon 4 The pecimen reported to be inflammatory tissue must be examined several times before the

exclusion of malignancy is justifiable
5 Epithelioma of bladder does not show a variation in the grade of malignancy in different parts of the same tumor

Judd E S and Thompson H L Exstrophy of the Bladder Complicated by Carcinoma Arch 5 g 1928 xvn 641

Carcinoma is a rare complication of exstrophy of the bladder. The authors review 10 cases collected. from the literature and report an additional case. Although adenocaccionoms is of comparatively zine occurrence in the normally developed bladder at as the type of cancer most commonla successful extraptly of the bladder. Of 895 tumors of the normally developed bladder which were seen at the Mayor Claim coll via 61 to 16 to 1

The authors review the theories advanced as to the etiology of estrophy of the bladder and discuss the embryology and histology of the bladder with special reference to the pathogenesis of adenocar

cinoma complicating eastrophy of that organ. No reports of cure following treatment were found in the literature. The cases of a patients treated at the Mayo Clinic who have remained well for three and six and a half years resp civiley since operation.

are reported in detail

Antonucci C Total Cystectomy in Nomen (De la cystectomie chez la femme cystectomie total

clarge) I de thir 1928 TERN 153
An ongual technique of total cystectomy for primary or secondary cancer of the bladder is de scribed. The operation is based on the principles of Wertheim's hysterectiomy and of Albertin a simputation of the rectum. The steps are described as follows.

r A suprapubic incision is made with the patient in the Trendelenburg position

in the I renderenourg position
2. The tubo ovarian and round ligaments are
sectioned and the ureters isolated as far as the uter
ine atteries and picked up in a loop for future iden
thication. The uterine arteries are then ligated and
cut

3 The preventular peritoneum is incised and the bladder separated in the median line and on the sides by gaize dissection. The uterosactal ligaments are then sectioned to allow free mobilization of the uterus. The ureters are sectioned and the vesicular ends ligated.

4 The posterior vaginal wall is incised transversely and the upper lip grasped with a tenaculum After ligation and section of the lateral vescal plexuses the vaginal incision is continued anteriorly well below the neoplasm the mass to be removed then being held only by the urethra

5 The urethra is sectioned between two L clamps and the distal end ligated Harmostasis is effected gauze is packed into the parametrium and brought out through the vagina and the pelvis is

pentionealized In the author's first case the ureters were brought out through the anterior abdominal wall and death resulted from uremin In his second case a pre liminary lumbar ureterostomy was performed and proved more satisfactory. The author has found that patients will accept a ureterostomy as readily as a permianent colosions.

GENITAL ORGANS

Walker K. The Diagnosis and Treatment of Sterility in the Male Erit If J 1928 is 65

Walker states that the spermatogenic function of the testis is far more sensitive to external influences than its function of internal secretion. He belone that the greatest progress in the study of male size illy will result from investigation of the effects of focal infection endocrine disturbances and det [Frey I Surgon M II]

Herrold R D The Interpretation of Chronic Infections of the Prostate and Seminal Vesi cles J Am M Ass 1028 act 557

Herrold states that although gonorrhea is usually a predisposing cause of chronic prostatitis and vesiculitis the gonococci are usually displaced by other bacteria by the time these conditions have developed Persons with a remote history of gonorrhea are as hable to have a hamatogenous in fection as those with a negative gonorrhical history It is probable that in some cases the infection of the genitals is of the descending type in which direct extension is brought about by the urine Occasion ally mild non gonorrheeal urethritis may reach the prostate without causing definite posterior urethrits but clinical evidence seems to indicate that many infections of the urethra and prostate are due to gonorrhoea either latent or active Obstructive changes in the urethra with resulting urinary dis turbances or urethral discharge are often closely allied to a low grade infection of the prostate and seminal vesicles A vicious circle is therefore established as each condition tends to aggravate the other Other factors increasing virulence of the is tent bacteria are sexual excess exposure to net and cold extreme physical exertion and conditions out side the genito urinary tract such as acute infections and chronic debilitating diseases Stricture of the urethra developing years after an attack of gonor rhoea may be explained by secondary stimulation of the foci of infection and the production of infiltration at the previously injured area. The action of the foct may be of an allergic nature

Localized symptoms or referred pains (satisfied are often proved by the therapeutic test to be due to chronic prostatists. That prostatis many be due to foci outside the graino tamas in the same transfer of the same transfer of drainage of infected areas in the reference and the test of the same transfer of the same transf

the prostatic infection
Finally there is the large group of so-called liter
inalections which are encountered frequestive
infections which are encountered frequestive
obstignous characteristics of current and
ocure The question axises whether they liter
become active foot of localized infection in the protate or of general systemic disease. The liter
technological and sevological study reported by Her

rold was made to determine the significance of this type of infection and to serve as an aid in the inter pretation of active manifestations local or general

of doubtful prestatic origin

In twenty six cases of chronic infections of the prostate and vesicles repeated cultures showed the repeated predominance of the same type of bacteria in man) instances. The identity of the organism in succeeding cultures was further corroborated several times by positive agglutination with the patient's serum and the bacteria isolated from the same pa tient at various times. The more common bacteria were the staphylococcus albus the diphtheroid group the streptococcus viridans the staphylococcus aureus the hamolytic streptococcus and the colon bacillus Usually there was a mixture of two or more of these bacteria but pure cultures were also found

Studies were made of the virulence of the prostatic fluids. The same bacteria often predominated in Cultures repeated at various intervals predominating types were more often positive in the virulence tests than other bacteria. The groups of urethral flora in chronic prostatitis are frequently dependent upon the infection in the prostate and seminal vesicles. One or more types of bacteria isolated in cultures from the prostatic and seminal fluid are often agglutinated by the patient's serum Prostatic fluids containing bacteria agglutinable by the patient's serum were more often lethal to muce when injected intraperitoneally than those con taining strains non agglutinable with homologous sera "Lin tests with the supernatant broth of three day growths of the whole prostatic fluid inoculum seem to indicate that the flui is producing the great est amount of skin reacting substance are more likely to be lethal to mice when injected intraperitoneally

The tentative results of the virulence tests in dicate that further studies to attempt a more definite evaluation of focal infections at their source are worthwhile It is probable that the value of autog enous vaccines may be increased if more care is use I in the selection of the strains for the preparation of the vaccines so as to include the bacterial types agglutinated by the homologous sera

LOUIS NELWELT M D

Barringer R S Phases of the Pathology Diag nosis and Treatment of Carcinoma of the Prostate J Leol 1928 Ex 427

Carcinoma of the prostate usually begins in the Po terior lobe Its progress is upward into the bods tather than downward toward the perineum It usually metastasizes late

The author is attempting to classify prostatic car tinomata according to their radiosensitivity believes that ralisation should always be used prior to operation. In extensive major operation should be avoided when possible

In conclusion Barringer states that an examina tion of the prostate shoul I be included in all general physical examinations of men over sixty years of 2 ge LANCE HES M D

Hirsch E F and Schmidt L F cinomata of the Prostate Gland J Urol 1928 XX 387

The authors review eleven cases of small carcino mata of the prostate with the findings of histological examination. The results in these cases emphasize the importance of making a microscopic examination of tissue from many areas of prostate glands removed with the clinical diagnosis of benign enlargement in order that small malignant growths may not escape ELMER HESS M D notice

Campbell M F Spermatocele J Utol 1928 xt

There are various theories regarding spermatocele formation Virchow first pointed out that pathologically spermatoceles are true retention cysts and Kocher showed that the yasa efferentia are the usual site of spermatocele formation

Anatomically spermatoceles are extravaginal or intravaginal The extravaginal type which are the most common usually arise behind the testicle between the testicle and the epididymis and develop outside the tunica vaginalis envelope. When they spring from the vasa efferentia or the superior vas aberrans the rete testis is the site of insertion They push the testicle downward and forward They may become lobular because of constricting circular fibrous bands and may attain great size Cysts developing in the cord from the paradidymis or vas deferens itself are rare and are character istically pyriform and single

The intravaginal spermatocile springs from some part of the epididymis develops within the tunica vaginalis and may rupture into a surrounding hydrocele with a discharge of spermatozoa cyst may be about the size of a testicle. The most frequent site of origin of the intravaginal spermato cele is the canal of the enididymis or the sessile

hydatid

Histologically the cyst wall is composed of interlacing connective tissue fibers interspersed with smooth muscle strands The cavity is lined by caliated or cylindrical epithelium if it is recent, and by flat pavement epithelium if it is old

Spermatocele fluid is usually opalescent and milks because of its seminal elements. On standing it separates into two lavers a clear layer above and a whitish layer below Microscopic examination reveals myriads of lymphocytes fat globules epithelial cells and spermatozoa. If the cyst communicates with the seminiferous tubules the spermatozoa will be active if it does not the spermatozoa will be dead | the fluid is neutral or only feebly alkaline in reaction and differs from by drocele flui I in its lighter pecific gravity and its low content of solids and albumin

Spermatoceles are most common in men between the twenty fifth and fiftieth years of age. They are rare in old or soung adults. Since they cause little inconvenience their duration varies. The symptoms are chiefly those of a growing mass at the top of the testicle with a dragsing sensation in the penis testicle and cord Dislocation of the testicle may occur. It may be induced on erection and may be intermittent. It is rare after intercourse. Neoplasia may be suggested but these existic tumors grow lookly and are not so hard as carnomic. Nor should they suggested tobecludes epideliumita. Furctuation they suggested tobecludes epideliumita. Furctuation and in the diagnosis. relatively dense milks, fluid is often translucent. In many cases aspiration alone will differentiate spermatocle from hydrocele

hæmatocele and chylocele Aspiration of spermatoceles will clinch the diagnosis but will not cure Excision of the cyst sac is the indicated treatment. This is easily done under local anasthesia Partial epididy meetomy was performed in thirteen cases and complete removal was done in one case. Any portion of the cyst wall which cannot be removed should be destroyed by cauteriza tion phenol serves admirably. After closing the wound without drainage the author applies the Bellevue scrotal compression bandage which prevents oozing and hæmatocele formation and affords ample support and complete immobilization with compression The patient is kept in bed for from five to seven days. I ostoperative complications are The most common complication is scrotal LOUIS NEUWELT M D bleeding with infection

MISCELLANEOUS

Wesson M B Pitfalls in Urography J [13]

The correct interpretation of pyelograms is at times difficult. While overdistention of the pelvis may cause discomfort incomplete filling of the pelvis may

cause an error in diagnosis

We soon prefers the gravity method to the sange plaines at its contra undicated by a low phthat one part he makes bilateral py elograms. He doubt if the cases of anuna reported following bilateral logicality are due to the effect of the prelography are cause anuna.

cause antima
Seven cases demonstrating errors to unquish
are reported. In one a filling defect we caused as
an organized blood dot. In another to research
a sufficient gravity pressure. In a bulling of the state of the caused as
sufficient gravity pressure. In a bulling of state
to receive the state of the state of the caused as a time of the state of th

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE RONES ICINTS MUSCLES TENDONS ETC

Griffith A S The Types of Tubercle Bacilli in Human Bone and Joint Tuberculosis J Path & Bacteri ! 1928 XXV 875

This article which deals solely with the results of English studies is divided into five sections 1 A summary of four published series of cases

2 A detailed account of the results in a fifth series. This investigation was begun in 1921 and extended into 1925 The series included 147 cases The original material was for the most part pus aspirated from abscesses From 133 of the 146 cases cultures of tubercle bacult were obtained either directly from the original material or from a guinea pig inoculated with it. The cultures were classified arst according to the cultural characteristics. If the strain proved eugonic the virulence test on rabbits was usually omitted All dysgonic cultures were tested on rabbits and some of them on guinea pigs

3 Statistics-a summary of the 5 series of cases and an analysis of all bone and joint cases

4 A discussion of the relative frequency of human and boying infections in different bones and loints

5 A discussion of the portals of entry of tubercle bacille in bone and joint tuberculosis

In summarizing the author states that tubercle breille have been isolated from 508 cases of bone and joint tuberculosis and their type has been deter mined In persons under twenty three years of age bovine bacilli were found in 20 per cent in children under five years of age in 33 per cent and in children between five and ten years of age in 24 per cent They were not found in any patients over twenty three years of age

Bovine bacilli appear to account for a larger pro portion of cases of tuberculosis of the spine than of cases of tuberculosis of other commonly affected bones and joints

Bone and joint tuberculosis may be the result of

respiratory or alimentary infection ROBERT C LONERGEN M D Phemister D B Unusual Lorms of Osteomye

litis North est Med 1928 IX 11 460 Unusual forms of osteomyelitis may result from variation in the age type and virulence of the micro-organism the bone affected and the site of involvement of the particular bone

Osteomyelitis usually occurs at a point in bone where the circulation and growth are most active Sclerosing osteomy chitis occurs when the infection sprea is more or less diffusely in a large segment of bone without pro lucing sequestration. In such cases

it may be difficult to differentiate from other inflam matory processes particularly lues

Localized osteomyelitis is most frequently con fined to the metaphysis of a large bone. It begins acutely with fever localized pain and swelling A cavity is rapidly formed which is filled with bus If the cavity does not rupture the condition passes into a chronic stage with exacerbations of the infection Operation is necessary for the eradication of the foci The foci are commonly called Brodie's abscesses although this name conveys a false con cention of their nature

Non suppurative or fibrous osteitis is an inflam matory process in bone characterized by the marked production of fibroblasts and bone absorption and usually slight exudation. Bacteria have not been demonstrated with sufficient certainty and regularity in these benign giant cell tumors or bone cysts to prove that they are the exciting cause

The author calls attention to a group of chronic non suppurative localized inflammations of the bone These lesions may be subperiosteal or endo steal or occur in the cancellous hone of the end of the shaft. They pursue a subacute or chronic course and produce a small area of bone destruction. The cavity is filled with a soft brownish or gray ish tissue without The symptoms are leucocytes or lymphocytes pain and tenderness which are mild at the onset and gradually become more severe. I hemister has seen seven cases The condition responds readily to saucerization

Bone cysts may occur as solitary lesions or as part of a multiple fibrocystic disease. The solitary lesions are seen usually during the period of growth. Many theories have been advanced to explain these lesions but the author thinks that a micro organism is the exciting factor. He has reported two cases in which a green producing streptococcus was found fact that sarcoma develops from benign giant cell tumors in exceptional cases is evidence in favor of the view that the lesion is a benign neoplasm rather than an inflammatory process

ROBERT V PLASTON M D

Evans W A and Leucutia T The Value of Roentgen Ray Theraps in I rimary Malignant Fumors and Benign Giant Cell Tumor of Bone

The authors first present the nomenclature and classification embracing all varieties of bone tumors which has been accepted by the Registry Committee of the American College of Surgeons They discuss five year cures of primary malignant bone tumors recorded in the I egi try and call attention to the fact that the cured cases were treated ly amputation alone by amputation and toxins or by

Am J Roenigenal 1928 x4 303

261

testicle with a dragging sensation in the pents stestice and cord Dislocation of the testicle may occur. It may be induced on erection and may be intermittent. It is rate after intercourse. Neoplasia may be suggested but these cystic tumors growsiowly and are not so hard as cartinoma. Nor should their suggest tuberculous epididy mitis. Fluctuation is composity noted. Translutimation offers little in the control of the cont

hamatocele and chylocele

Aspiration of spermatoceles will clinch the diagnosis but will not cure Excision of the cyst sac is the indicated treatment. This is easily done under local an esthesia Partial epididy mectomy was performed in thirteen cases and complete removal was done in one case. Any portion of the cyst wall which cannot be removed should be destroyed by cauteriza tion phenol serves admirably. After closing the wound without drainage the author applies the Bellevue scrotal compression bandage which pre vents oozing and hematocele formation and affords ample support and complete immobilization with compression The patient is kept in bed for from five to seven days. Postoperative complications are few The most common complication is scrotil bleeding with infection LOUIS NEUWELT M D

MISCELLANEOUS

Wesson M B Pitfalis in Urography J Ltd

The correct interpretation of pyelograms is all times difficult. While overdistention of the pelvis may cause discomfort incomplete filling of the pelvis may cause an error in diagnosis.

We soon prefers the gravity method to the synaultess it is contra indicated by a low phthale, and put he makes bulateral prelograms. He doubt if the cases of anums reported following bulatery lography are due to the effect of the prelographe commation and cites two cases which show that unceteral manipulation without prelographe raw

cause anuma
Seven cases demonstrating errors in imaginal
are reported. In one a filling defect as caused is
an organized blood dot. In another there say a
sufficient gravity pressure. In a third the up-file
catheter in a cultive with its eyes of tagoes with
deferred demantis—two of gallstones and one elbary
stone—the diagnoss was doubtful. In the sevent
case a cancer of the bladder disappeared under deep
therapy but autopsys showed an adeea acrosses at
the rectum with marked invasion of the blad'er
wall
Catawar D Fresses, 399

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Griffith A S The Types of Tubercle Bacilli in Human Bone and Joint Tuberculosis J Path & Bacteriol 1928 xxii 875

This article which deals solely with the results

This article which deals solely with the results of English studies is divided into five sections i A summary of four published series of cases

A detailed strong publisher was the same of the second of

3 Statistics—a summary of the 5 series of cases and an analysis of all hone and joint cases

4 A discussion of the relative frequency of

human and bovine infections in different bones and joints

5 A discussion of the portals of entry of tubercle bacilli in bone and joint tuberculosis

In summarizing the author states that tubercle baselih have been solated from 596 cases of bone and joint tuberculosis and their type has been determined. In persons under twenty three years of age boune bacilli were found in no per cent in children for the years of age in 33 per cent and in children for the years of age in 35 per cent and in children the years of age in 14 per cent. They were not found in any patients over them?

Bovine bacilli appear to account for a larger proportion of cases of tuberculosis of the spine than of cases of tuberculosis of other commonly affected

bones and joints

Bone and joint tuberculosis may be the result of te piratory or alimentary infection

ROBERT C LONERGAN M D
Phemister D B Unusual Forms of Ostcomye

Hits Vortha st Med 1928 xvvii 460
Unusual forms of osteomyelitis may result from varia ion in the age type and virulence of the micro organism the bone affected and the site of

Involvement of the particular bone
Osteomyelits usually occurs at a point in bone
where the circulation and growth are most active
Sclerosing osteomyelits occurs when the infection

Sclerosing osteomy elitis occurs when the infection spreads more or less diffusely in a large segment of bone without producing sequestration. In such cases

it may be difficult to differentiate from other inflam matory processes particularly lues

Localized osteomy clius 18 most frequently confined to the metaphysis of a large bone It begins acutely with fever localized pain and swelling A cavit) i rapidly formed which is filled with pus If the cavit does not rupture the condition passes into a chrome stage with exacerbations of the infection. Operation is necessary for the eradication of the foct. The foct are commonly called Brodies abscesses although this name conveys a false concretion of their nature.

Non supportative or fibrous ostetils is an inflam matory process in bone characterized by the marked production of fibroblasts and bone absorption and usually slight exudation. Bacteria have not been demonstrated with sufficient certainty and regularity in these beinging mant cell tumors or bone cysts to

prove that they are the exciting cause
The author calls attention to a group of chronic non suppurative localized inflammations of the bone. These lesions may be subpernosted or endo steal or occur in the cancellous bone of the end of the shaft. They pursue a subscutte or chronic course and produce a small area of bone destruction. The cavity is filled with a soft brownshor prays in times without leucocytes or lymphocytes. The symptoms are pain and tendermess which are mid at the onset and gradually become more severe. The mister has sent a successful to the condition responds reachly to successful the condition responds reachly to

Bone cysts may occur as solitary lesions or as part of a multiple fibrocystic disease. The solitary lesions are seen usually during the period of growth. Many theories have been advanced to explain these lesions but the author thinks that a micro organism is the exciting factor. He has reported the cases in which a green producing streptococcus was found. The accordance of the control of the c

ROBERT V FUNSTON M D

Evans W. A. and Leucutia T. The Value of Roentgen Ray Therapy in Primary Malianant

Tumors and Benign Giant Cell Tumor of Bone

The authors first present the nomenclature and classification embracing all varieties of hone tumors which has been accepted by the Registry Committee of the American College of Surgeons They discuss the five year cures of primary malignant Lone tumors recorded in the Registry and call attention to the fact that the cured cases were treated by amputation alone by amputation and toxins or by

amputation toxins and irradiation. Not one case was treated by irradiation alone or by amputation and irradiation without toxins

In their opinion, the explanation why irradiation in general and roentgen ray irradiation in particular fell into disrepute as therapeutic measures for a con dition in which other methods strongly advocated have given equally if not more unsatisfactory te sults is that irradiation therapy was until recently in the experimental stage and the doses administered were too small to produce an appreciable therapeutic effect Since the introduction of the highly penetrat ing irradiation with larger well measured and more scientifically applied doses irradiation therapy es pecially in the form of deep roentgen ray therapy is becoming more and more prominent in the treat ment of malignant bone lesions

Five years have now elapsed since the authors first cases of bone tumor were treated by deep roentgen ray pradiction. The results obtained demonstrate that the roentgen ray is one of the most powerful agents at our disposal in the treat ment of all varieties of primary malignant bone tumors as well as benign giant cell tumors year cures are possible from roentgen irradiation therapy even in cases with extensive metastases and those in which no other methods can be of benefit All of the cases reviewed were registered with the Registry of Bone Sarcoma of the American College of Surgeons and all of the diagnoses were those of

the Registry Committee

The authors discuss the relationship of the mor phological structure of the tumor to the response which may be expected from irradiation, and report the histories of cases of different types of tumors treated with photographs roentgenograms photo micrographs and appended summaries commenting on the results obtained by the roentgen therapy The question of dosage in general, the reason for the variable response to treatment, and the necessity for special dosages in individual cases are considered The method of procedure used by the authors for various types of tumors is described in detail. The value of roentgen therapy in osteogenic sarcoma Ewing's tumor myeloma periosteal fibrosarcoma borderline tumors such as skeletal chondroma and myxoma and giant cell tumor is also given con sideration

Roentgen ray therapy of primary malignant bone tumors and of benign giant cell tumors is governed by the following rules which are based upon the primary influence of the roentgen rays on the highly complicated tumor tissues

I Cellular tumors without much stroma and rich in blood supply though chaically and from the surgical viewpoint very malignant may be made to disappear entirely by irradiation

2 Tumors of the adult type especially when rich in mature intercellular structures (cartilage bone) and poor in blood vessels may prove entirely refrac tory to irradiation but yield readily to surgical procedures

3 In tumors of the intermediate type the more undifferentiated cells may be made to disappear and the growth of the more adult cells may be retarded by irradiation so that they produce an abundance of calcific (cartilaginous and osseous) intercellular substance A marked sclerosis with considerable prolongation of life often results in such cases. In other instances postirradiation surgical measures are of distinct value

From their results the authors conclude that the present standard methods of treating bone samona and benign giant cell tumors should be completely revised Irradiation in the form of deep menters ray therapy should find a more extensive application in all forms of bone sarcoma and giant cell tumor operable or moperable whether combined with no gical measures mixed toxins or the more recent leid therapy and it remains for the Registry of Bone Sarcoma to collect more complete stati tical evident regarding the value of such a procedure In on clusion the authors state that as the Registry has abundantly succeeded in establishing a standard nomenclature and standard criteria of classification, they are confident that it will now succeed in ealth lishing more or less standard measures of then ADOLER HARRING MD peutics

Keiller V H Unusual Types of Osteogenic Sar comata Texas State J M 19 8 Env 4 9

The first tumor described by the author was a fusiform neoplasm which developed on the lover end of the shalt of the femur of a gui thuteen years of age On section it presented no sign of bort cartilage or calcium deposit. It was almost free of blood channels and was composed essentiall of dense homogeneous fibrous tissue The lawer 4 10 of the shaft of the femur had been replaced by the tumor and the epiphysis was so infiltrated that it had lost its identity Cellular elements which were comparatively few showed small inactive spendieshaped nuclei

The second specimen described was a centrally expanding tumor occupying the upper end of the tibial shaft and involving the epiphyseal line. It had grown rapidly and had been quite tender ray examination had shown it to be a centrally rarefying tumor surrounded by a bone shell. In spite of the presence of the surrounding bone shell a diagnosis of malignancy was made surrounded the tumor completely and on histo-logical examination the neoplasm was seen to be composed of short spindle cells with resting nuclei. some of which showed recent division Numeron large blood spaces which were present were lard with malignant cells

The third specimen was a malignant hone aneu-Although gross examination resealed no te semblance of this tumor to fibrosarcoms the bi tology of the neoplasm was almost identical with that of bbrosarcoma except for a marked difference in the vascular supply The tumor mass was corposed largely of blood not enclo ed in vessels but lying in huge spaces imperfectly walled off by tumor

The last specimen described appeared to be a being mant cell tumor smoothly surrounded and expanted from the soft parts by a product of the soft parts by a read personseum. He had been also parts by a read personseum Histologically the bony capsule showed imperfect paltes of ossessus tissue similar to those found not malignant. The tumor mass was soft and very finable and presented a considerable amount of blood clot. Many of the sections studied showed the typical findings of grant cell tumor while other sections showed areas which were definitely malignant with undifferentiated loose oxeroblast like and the production of the product

Although osseous tissue is by no means a neces sary feature of osteogenic sarcoma and not always characteristic when it is present its presence is as valuable in the diagnosis as a typical giant cell in tuberculosis.

ANTRONY I SAVA M D

key J A The Cytology of the Synovial Fluid of Normal Joints Anat Record 1928 xl 193

The collular constituents in the synovial fluids to moved from the joints of me and laborator vanimals were studied by a method of supravital staining Regardless of their source the fluids were similar in the type and proportions of cells found. The cell count was usually between 175 and 25 per cellul millimeter during life and rose rapidly after death

The cells of the macrophage series are the most important cellular constituents of normal synovial fluids Eighty eight per cent of all nucleated cells found could be placed in this group which includes monocytes (58 per cent) clasmatocytes (15 per tent) indeterminate mononuclear phagocytes and primitive cells The proportion is about the same as that found in connective tissue a fact which further supports the theory that the joint cavities are clefts in connective tissue and are incompletely lined by slightly modified connective tissue cells. The macro phage group are mature living cells whose function it is to remove waste or foreign material from the joint cavity Red blood cells are normally present in synovial fluids together with leucocytes fat and tissue debris. Only a few detached synovial mem brane cells were found while degenerating and car tilage cells were never seen. This indicates that fric tion of the joint surfaces is a negligible factor in de termining the cellular constituents of the synovial CHESTER C GUY M D

Gibson A The Etiology of Rheumatoid Arthritis

J Bo & & Joint S & 1928 x 747

There are two main groups of theories regarding theumatoid arthritis (1) that it is due essentially to a disturbance of body chemistry and (2) that it is infective in character. The three chief non infective factors are (1) a congenital predisposition (2) endo crine disturbance and (3) faulty alimentation.

The theory of infection is widely accepted and there is considerable evidence in its favor By some it is assumed that organisms reach a joint and there initiate the series of changes resulting in the production of the disease. By others it is believed that for some reason the joint has become hypersensitive and reacts in an anaphylactic manner when it is reached by a toru from an infective focus.

An argument advanced against the infection theory that the joint fluid almost constantly above no growth on culture. On many occasions, however organisms have been cultured from the synovial membrane and it is possible that cultures of the subsynovial issue obtained without entering the joint cavity may give more frequent positive results.

In a number of cases extrapated deep inguinal glands have furnished abundant evidence of active organisms capable of growth With Cadham Gibson therefore prepared a vaccine from the organisms found in such glands and gave it subcutuaeously weekly. In no case was there a violent reaction and in every case the treatment seemed to result in some benefit. The chef improvement noted was the arrest of the acute exacerbations of the disease Gibson is therefore of the opinion that the key to the problem may be found in the bacteriology of the jumphastic glands. If Easine Cowneil, MTD

Stern W. G. Acute Painful Ankylosing Arthritis J. Am. M. Ass. 1928 xci 1253

Stern reports two cases of dry arthrith of questionable ethology. In most of his cases of this type there has been a history of tonsilhits furniculosis or some other focus of infection but in mone has it been possible to discover an evidences of gonor rhora in spite of careful search for this condition. The symptoms have been mainly subjective—in tensible on the subjective month and the subjective moving fluid or change demonstrable in the resulting some of the subjective month. This resulted in complete permanent analysis so of the affected joint a few weeks after removal of the cast.

In the discussion of this paper Gaenslen stated that he would heistate to accept this form of arthribase as a distinct clinical entity because evidences of old gooorcheal infection are always difficult to find and because more detailed bacteriological studies might have shown an organism of the progenic group in the spownal fluid removed

CAMPBELL attributed such cases to a pyogenic organism because the condition follows acute infections

CHESTER C GUY M D

McFadden G D F Obstetrical Paralysis Some Factors in Its Production Progress and Treatment J Bone & Joint Surg 1928 x 661

A straight pull on the brachial plexus does not tend to rupture the fibers but a pull downward by severe depression of a shoulder changes the angle of exit of the nerves from the spinal canal in such a way that tears occur in the upper roots of the plexus. If the arm is pulled hard while it is abducted over the head the lower roots will be torn loose Rotation of the head also plays an important part. If the head is sharply rotated the large transverse process of the seventh corvical will press forward against the fifth and sixth nerve roots where they join. Obstet rical palsy has been known to follow attempts to rotate the shoulders by two ting the baby s head and may develop also after breach presentation if the obstetrician pulls and twists the body while the head is still fixed in the pelvis

Although it has been contended that a partial or complete dislocation of the shoulder joint is the pri mary lesion in Erb's palsy the weight of evidence indicates that this is secondary to the nerve lesion As the resul of interference with the growth of the head of the humerus and contracture of the joint capsule the shoulder takes on a deformed and sub luxated appearance. In most cases the child is un able to supmate the forearm. This disability is due not to loss of muscle power in the summators but to the fixed internal rotation of the humerus which pre vents the palm from facing upward

When there is great difficulty in the delivery of the shoulders at is better to pull with a finger in the axilla even at the risk of breaking a clavicle than to pull on an arm Rotation or twisting should be

strictly avoided

In the surgical treatment of obstetrical paralysis the arm should be placed in a splint for three months to rest the paralyzed muscles and during this time the shoulder should be nut through its full range of motion to prevent contraction and adhesion of the capsule. The best splint is the

if it at first involved the whole arm and has cleared up leaving the upper arm paralyzed an exploratory operation is indicated in order that damaged nerve trunks may be sutured WILLIAM A CLARE M D

Garlock J II Compound Injuries of the Extrem ities Am J Surg 1928 v 281

Garlock reports nine cases of compound fracture which were treated by debridement and suture. The bones involved were the tibia and fibuls a metacar nal bone and the ulna Pedicled skin grafts were frequently used at an early stage to cover skin de fects. The patients were under observation for a year or more after the injuries and all of the results were very good. In the setting of fractures of long bones kangaroo tendon was sometimes used to maintain the approximation ROBERT V FUNSTON M D

Jones Sir R Volkmann's Ischæmic Contracture

with Special Reference to Treatment Bu M J 1928 u 639

This paper was the opening discussion in the Sec tion of Orthopedics at the 1928 meeting of the

British Medical Association Jones first reviews briefly the historical aspects of Volkman's rea tracture The contributions of Volkmann and Let a on the condition have required little revision in the fifty years that have presed since they were writen. Pathologically, Volkmann's ischemic contractors is a condition of muscle degeneration followed by fibrous tissue replacement. Some observers have found it more marked on the ulnar than on the radial side. It occurs most frequently in children between the ages of one and fourteen years following an injury about the elbow. In 80 per cent of the cases the injury is a fracture. There is volut fire ion of the wrist with extension of the metacarpa Phalangeal joints and flexion of the fingers The hand is frequently propated and the e bow fixed i flexion The skin over the forearm may be cold and Blisters and scars may be present The blue muscles are roov and wasted. Nerve involvement due to pressure or injury from a bony spicule is a frequent complication. Beginning a few hours after the injury swelling numbness and loss of voluntary movements of the hogers develop and if a treased progress in forty eight hours to complete contract ture Mild cases may be unrecognized manifesure themselves merely by slight impairment of ext asset of the fingers In some cases only two or the fingers may be affected

Brooks and Jepson have shown that a combination of factors is necessary for the production of the con tracture Most important are an acute se oobstruction blood and serum extravasation and swelling of the soft parts I ressure from without is not necessary though it is trequently present Although the contracture has developed in nun criss cases in which no bandage has been applied tight

bandaging should be avoided Despite opinions to the contrary Jones advocates the flexion treatment of elbow fracture if e em phasizes however that there should be no circular compression The dislocation must be reduced and bony fragments replaced No spirats should be applied and no force used to obtain reduction If reduction is not easily obtained opera i e treatment must be considered In all cases of elbow mary the hand must be carefully vatched for pain swelling lividity stiffness and loss of voluntary movements If these warning signs appear the a m should be elevated and all compression removed Murphys suggestion of incision and drainage is logical though not many successful results from it have been

The prognosis is grave especially if the nerves are badly damaged the circulation of the fingers ; seriously impaired and the wrist stally flexed with pronation of the hand and firstion of the elbos When separate movements of the fingers are posible the prognosis is better than if only mass moter ments are possible Some improvement can be looked for in almost every case

reported

Jores has consistently used mechani al extension of the joints by means of extension splints and he never had cause to regret it. Even when there is complete loss of muscle, the relief from claw hand renders the procedure worth while I hysiotherapy (heat gentle massage contrast baths and electrical stimulation) is an invaluable aid. Iones has had little experience with operative measures such as tenotomy tenoplasty and resection of the radius and ulna and his results from surgery have not been encouraging The operation advised by Page and performed by Platt (detachment of the flexor group from their origin) appeals to him as logical. He is of the opinion that when there is fixed pronation with very little flexion at the elbow resection of the joint may be indicated and may be combined with the operation of Page and Platt

MICHAEL L MASON M D

Kuemmell New Experiences with Posttraumatic Diseases of the Vertebræ (Neue Erfahrungen ueber die posttraumatischen Wirhelerkrankungen) Lei tralbl f Chir 1928 lv 786

The author first reviews the results of researches. on knemmell's disease up to the year 10 6 These show chiefly that the vertebræ may be compressed by traumata of no great severity but later resume their original shape so that in the early stages of the condition there are no demonstrable changes of form Not until a considerable time later does the deformity (gibbus) appear and show that the delicate spongy trabeculæ were so injured in their vitality that they underwent resorption Kocher in par ticular has called attention to the crushing of the intervertebral disks that is associated with such in jury It is only very rarely that a narrowing of the vertebral body or of the intervertebral disk can be

demonstrated roentgenologically Our present theories regarding traumatic disease of the vertebræ have been considerably changed by the work of Schmorl Schmorl demonstrated that by the action of the trauma the bony plate separat ing the body of the vertebra from the cartilaginous disk above it-the so called terminal lamina-is torn and the nucleus pulposus of the intervertebral disk then unprotected proliferates into the interior of the spongy bone of the vertebral body and disin tegrates it The cartilaginous nodules of Schmorl or the bone hernix of Geipel result Schmorl has shown further that multiple injuries of the vertebral bodies of this nature may be associated with clini ally de monstrable compression fractures

In the discussion May stated that in one case he hal been able to demonstrate Schmorl's cartilagi nous nodule formation roentgenologically

SCHANZ pointed out that the conception of Kuemmell's disease must be widened since not only gibbus but also kyphosis and scoliosis may be sequelæ of changes in the vertebral bodies resulting from relatively slight traumata

ZUR VERTH stated that in his opinion the car tilaginous nodules are of less importance than Kuemmell believes them to be as they are found in one third of spinal columns examined and also in

cases in which no trauma has been sustained. He regards them as abnormalities like birthmarks

A New Method for Obtaining Dall Acons V Lateral Projection of the Last Cervical and First Dorsal Vertebrae (Nuovo metodo per la proiezione laterale delle ultime vertebre cervicali e delle prime dorsali) Radiol med 1028 TV 843

The lateral picture of the spinal column is of great value in showing changes in the vertebræ that are not visible in the anteroposterior projection but while it is easy to obtain a lateral picture of most of the column it is difficult to obtain one of the last cervical and first dorsal vertebræ because the shadow of the clavicle and humerus are superimposed upon them A number of methods have been devised for partially overcoming this difficulty but Dall Acqua describes a method which he thinks is better than

the methods previously suggested In the author's procedure the patient is placed in the right lateral oblique or better the left lateral oblique position with his body forming an angle of about 55 degrees with the table The shoulder is brought down as far as possible and the neck sup ported on a wooden block or a sandbag over which the film is arched. The film is carried down to the subclavicular region and care is taken to adapt it well to the soft parts To obtain clearer dissociation of the last cervical from the first dorsal vertebra the neck is slightly curved with its convexity toward the tube and the center of its convexity at the sixth cervical vertebra. The tube which is exactly per pendicular to the plane of the table is centered on the sixth and seventh vertebræ. Any inclination upward or downward will interfere with the clear

ness of the picture This method gives a lateral picture not only of the bodies of the seventh cervical and first and second dorsal vertebræ but also of the proce ses so that the complete vertebræ can be studied without an oblique projection such as is required in the method of Alberti. The clavicle is projected on the hody of the second dorsal vertebra or in the intervertebral space between the second and third dorsal vertebra without greatly disturbing the interpretation of the picture ALDREY G. MORGAN M.D.

Ghormley R k and Bradley J I Prognostic Signs in the \ Rays of Tuberculous Spines in

Children J Bone of Jon Surg. 1928 x 96
Hibbs R A and Risser J C Treatment of Ver
tebral Tuberculosis by the Spine Fusion Opera tion Report of 286 Cases A Second Series J Bone & Jo at Surg 1928 x 805

GHORMLEY and BRADLEY report their conclusions from a study of 27 cases of tuberculosis of the spine at the New England I cabody Home for Crippled Children The roentgenograms in these cases were taken at four month intervals after a period of from two to five years The cases were treated for the most part conservatively

severe depression of a shoulder changes the angle of exit of the nerves from the spinal canal in such a way that tears occur in the upper roots of the pleaus If the arm is pulled hard while it is abducted over the head the lower roots will be torn loose Rotation of the head also plays an important part. If the head is sharply rotated the large transverse process of the seventh cervical will press forward against the fifth and sixth nerve roots where they join Obstet rical palsy has been known to follow attempts to rotate the shoulders by twisting the baby's head and may develop also after breach presentation if the obstetrician pulls and twists the body while the head is still fixed in the pelvis

Although it has been contended that a partial or complete dislocation of the shoulder joint is the pri mary lesion in Erb's palsy the weight of evidence indicates that this is secondary to the nerve lesion As the result of interference with the growth of the head of the humerus and contracture of the joint capsule the shoulder takes on a deformed and sub luxated appearance. In most cases the child is un able to supmate the forearm This disability is due not to loss of muscle power in the supinators but to the fixed internal rotation of the humerus which prevents the palm from facing upward

When there is great difficulty in the delivery of the shoulders at is better to pull with a finger in the axilla even at the risk of breaking a clavicle than to pull on an arm Rotation or twisting should be

strictly avoided

In the surgical treatment of obstetrical paralysis the arm should be placed in a splint for three months to rest the paralyzed muscles and during this time the shoulder should be put through its full range of motion to prevent contraction and adhesion of the capsule The best splint is the platform splint. If the paralysis is extensive or if it at first involved the whole arm and has cleared up leaving the upper arm paralyzed an exploratory operation is indicated in order that damaged nerve trunks may be sutured WILLIAM A CLARK M D

Garlock J H Compound Injuries of the Extrem ities 4n J Sure 2018 v 281

Garlock reports nine cases of compound fracture which were treated by debridement and suture. The bones involved were the tibia and fibula a metacar nal bone and the ulna Pedicled skin grafts were frequently used at an early stage to cover skin de fects The patients were under observation for a year or more after the injuries and all of the results were very good. In the setting of fractures of long bones kangaroo tendon was sometimes used to maintain the approximation

ROBERT V FUNSTON M D Jones Sir R Volkmann's Ischæmic Contracture

with Special Reference to Treatment Brit M J 1928 11 639

This paper was the opening discussion in the Sec tion of Orthopedics at the 1928 meeting of the

British Medical Association. Jones first to beat briefly the historical aspects of Volkmann s con tracture The contributions of Volkmann and Let a on the condition have required little revision in the fifty years that have passed since they were written I athologically Volkmann a ischemic contracture is a condition of muscle degeneration followed by fibrous tissue replacement. Some observers have found it more marked on the ulnar than on the radial side. It occurs most frequently in children between the ages of one and fourteen years foll rang an injury about the elbow. In 80 per cent of the cases the injury is a fracture. There is volar fix ion of the wrist with extension of the meticanophalangeal joints and flexion of the fingers. The hand is frequently pronated and the elbow fixed in flexion The skin over the forearm may be cold and Blisters and scars may be preent. The muscles are ropy and wasted herve unolverent due to pressure or injury from a bony specule is a frequent complication Beginning a few hours af er the injury swelling numbress and loss of voluntar movements of the fingers develop and if unitated, progress in forty eight hours to complete contract ture Mild cases may be unrecognized manifesting themselves merely by slight impairment of extented of the fingers. In some cases only two or three

fingers may be affected Brooks and Jepson have shown that a combination of factors is necessary for the production of the con tracture Most important are an acute venous obstruction blood and serum extravasation and swelling of the soft parts Pressure from without a not necessary though it i frequently present Although the contracture has developed in numerous cases in which no bandage has been applied tool

bandaging should be avoided

Despite opinions to the contrary Jones advocates the flexion treatment of elbow fractures. He em phasizes however that there should be no curular compression The dislocation must be reduced and bony fragments replaced No splints should be applied and no force used to obtain reduction Il reduction is not easily obtained operative treatment must be considered In all cases of elbow injury the hand must be carefully watched for pain swelling lividity stiffness and loss of voluntary movements. If these warning signs appear the arm should be elevated and all compression removed Murphy's suggestion of incision and drainage 1 logical though not many successful results from it have been reported The prognosis is grave especially if the rene

are badly damaged the circulation of the fingers it seriously impaired and the wrist is fully flexed with pronation of the hand and fixation of the elbos When separate movements of the fingers are possible the prognosis is better than if only mass more ments are possible Some improvement can be looked for in almost every case

Jones has consistently used mechanical exten ion of the joints by means of extension splints and has tred. If this fails surmeal ankylosis of the joint

may be required

T 742

Combined below toint strain Symptoms of both lumbosacral and sacro iliac lesions may be found together Semi sacralization of the fifth lumbar vertebra should be sought for in such cases The treatment indicated is prolonged immobilization and CHESTER C GUY M D support

Swaim L T The Prevention of Deformaties of the knee in Arthritis J Bone & Joint Surg 19 8

The most common deformity of the knee in arthritis is flexion and subligation with outward totation This deformity presents a grave problem since whatever procedure is used-conservative stretching manipulation or surgery-a completely successful functional result is rarely obtained after its development

The cause of flexion of the knee is the desire of the patient to relieve pain during the acute painful stage of the disease. After flexion takes place and complete extension has become impossible the secand deformity subhixation begins. The effort must therefore be made to relieve pain and tension by placing the knee at rest without flexion. The author accomplishes this by means of a light plaster of Pans cast applied from the hip to the toes with the leg extended but not hyperextended. To prevent fixation the cast is bivalved within three days In most cases complete rest of a few days is sufficient H EARLE CONWELL M D

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Royle N D An Original Technique in Tendon Transplantation J Coll ge Sury Australasia 19 8 1 115

To obviate the slipping of a transplanted tendon the author uses the tendon as a living suture For example the biceps tendon is passed through the quadriceps tendon and the semitendinosus is then brought forward and passed through the quadriceps and biceps together these two tendons being thus anchored to each other as well as to the quadricens In transplantation of the tibialis posterior into the Achilles tendon the former is split into two unequal strands the larger strand is passed through the center of the Achilles tendon longitudinally and the smaller is woven back and forth as a suture to hold the larger strand in place

In cases of paralysis of the tibialis anterior the peroneus brevis is brought down through the tibialis sheath from an incision above the ankle. A piece of the tibialis amounting to about a third of its diameter is then stripped from the tendon starting at the incision above the ankle joint pulled down through the sheath and used as a living suture still attached at its original insertion to stitch the peroneus brevis to the main tendon of the tibialis anterior

In case of wrist drop the pronator teres is trans planted into the wrist extensors. A living suture is stripped from one of the extensor tendons from be low upward being left attached to the belly of the muscle and with this living suture the pronator teres is stitched into the two extensors of the wri t In cases of paralysis the small tendons of the fingers and thumb can be used as direct living su

tures to stitch themselves into active tendons

The tensor fascure can be used to reinforce a defective quadriceps by splitting off three or four strips and using them to suture the main body of the fascia lata into the quadricens. The advantages claimed for this method are that the living suture does not weaken a tendon whereas foreign material causes weakening wherever it is passed through there is no postoperative slipping the patient walk ing with safety in three weeks and accurate adjust ment of tension is possible during the operation so that the final tension is midway between extreme relaxation and extreme contraction

MITTIAM A CLARK M D

Arthrotomy of the Elbow Supple Lenche R mented by Section of the Lateral Ligaments and Temporary Posterior Dislocation for the Treatment of Articular Chondromatosis and to Facilitate Certain Osteosyntheses (De l'arthrotome élargie lu coude par secti n des l'an ments latéraux et désarticulation temporaire p s térieure dans la chrondromatose articulaire et pour faciliter certaine ostéosynthe es) Lyon chir 1028 XXV 450

The ordinary arthrotomies of the elbow give a poor exposure Even when the olecranon is sec tioned the anterior synovial cul de sac is difficult to reach. In two cases of multiple foreign bodies and one case of vicious union of a fractured external condyle Leriche added section of the lateral ligaments to the method of arthrotomy in which the olecranon is sectioned. This allowed the elbow to be dislocated as in resection but to a less degree. After treatment of the lesions, the ligaments were sutured with catgut and the joint was closed without drainage

In the first two cases in which the bone was not touched mobilization was begun on the seventh day The patients all laborers had resumed their work four months later There was no tendency

toward flail joint

Section of the olecranon is best done quite low down Simple detachment of a lamella of bone in cluding the tendon of the triceps has proved less satisfactory Either a 1 incision the branches of which follow the borders of the triceps tendon or a long lateral incision should be used to approach the ALBERT I' DE GROAT M D

Bailey H Volkmann's Ischæmic Contracture

Treated by Transplantation of the Internal Epicondyle Br 1 J S g 19 8 xv1 335

Bailey reports a case in which Volkmann's ischæmic contracture developed in a child of four years following a transverse fracture of the lower

The prognostic signs are divided into (1) the changes observed in the tuberculous lesion itself and (2) the changes observed in the tuberculous abscess

The most favorable type of case so far as perma nent arrest of the disease is concerned seems to be that in which there is X ray evidence of fusion be

tween the partially destroyed vertebra

The authors state that the importance of the abscess accompanying tuberculosis of the spine can not be over emphasized. A decrease in the size of the abscess is a favorable sign. Calcification of the abscess does not necessarily signify improvement The abscess itself may add greatly to the destructive

process in the vertebra through direct pressure HIBBS and RISSER review 286 consecutive cases of vertebral tuberculosis in which the spinal fusion operation was done at the New York Orthopedic Dispensary and Hospital in the period from 1015 to 1020 The results in 30 cases which were followed for an average of only two years were doubtful or unknown and are therefore excluded from the dis cussion. In 74 6 per cent of the others a cure was obtained. In 8 cases (3 1 per cent) the patient sur vived but was not cured. There were 67 deaths a mortality of 26 2 per cent Ten patients died from causes other than tuberculosis of the spine the spinal lesion having been cured. Sixty per cent of the patients were less than five years of age at the onset of the disease and 40 ner cent were less than five years of age at the time of operation Sixty three per cent were less than ten years of age at the time of the operation. Following the operation the patients were transferred to the country branch of the hospital where the average stay was one year and seven months There were 3 operative deaths an operative mortality of o 9 per cent. All of the nationts who failed to survive the operation were poor risks. In a total of 534 operations performed in the period from 1911 to 1920 the mortality was only o 5 per cent

In conclusion the authors state that any treat m at an vertebral tuberculosis must be applicable to children as the condition occurs most frequently in childhood. They believe there is no justification for the hope that all of the diseased joints will become fused under treatment by conservative methods

ROBERT | FUNSTON M D

Cochrane W A Low Backache and Sciatica Bril Hed J 1928 II 696

The main problems to be considered in cases of

low backache are 1 The a atomical type or build of the patient He may be slender and delicate and unsuited to

heavy work
2 The patient's posture and use of the body The porture may be incorrect and the body used in positions of mechanical disadvantage

3 The roentgenogram of the spine Absence of signs of pathological changes in the roentgenogram may be due to a lack of lateral and stereuscoric

4 The possible presence of an intrasic spingl lesion such as osteo-arthritis in cases of allegel injury in which the symptoms are out of proportion to the trauma 5 The relation of anatomical variations to hock

ache and sciatica

6 The mental problem and the quest is of malingering

In the diagnosis the patient's general build and attitude the presence or absence of the normal lumbar curve and of a lateral deviation restriction of movement and pain on movement of the some and hips in lying sitting and standing spasm of wasting of muscles the presence or absence of swelling and tender points in the lumbo-sacro inc region the finding of rectal examination and the nerve function in the legs must be considered

The etiology pathology and treatment of state traumatic strain general postural strain lumbosacral strain sacro iliac strain and combined peint

joint strain are discussed

Acute traumatic strain Acute traumatic stra a is a rupture of ligaments and muscle fibers due to violence and has a sudden onset with well localized symptoms It should be treated first by recumberry on a firm mattress with the knees e'es ted and the back strapped with adhesive Later heat ma-ar and graduated exercises are advisable By a h treatment and the correction of faulty pos -chronic disability is prevented

General postural strain This ca see a g neral aching which is not confined to any one joint and usually occurs in slender asthemic perso a who are engaged in a fatiga ag occupation or adop faulty attriudes resulting in poor posture. The treatment should consist in rest support and pe tural re-

education Lumbosacral strain In this condi ion the distress is usually asymmetrical and scratica is a frequent symptom Lumbosacral strain occurs most ofter in stout persons with a pendulous abdom a Lateral bending of the lumbar spane is freet in one direction than in another and flexion of the bip with extension of the knee is limited on the affected side Disturbances of nerve sensibility and muscle atrophy of the leg may be present. The treatment is recumbered with the knees flexed the applicat on of hot fomenta tions to the back for forty five minutes three limes a day exercises to flatten the lumbar space wheathe sorene s has gone and the application of a plaster lacket when the patient is allowed up When the patient has learned to stand correctly the plater

This is commonest in the slo Sacro-iliac strain der visceroptopic type of person with a poor posture and a lordosis The upper part of the sacrur more forward with resulting strain When the patient is standing and bending far forward he flexes the keet on the affe ted side The treatment of the mides is similar to that of the lumbosacral type In more resistant cases for ible flexion of the hip with the knee straight and the patient anasthetized ma be

jacket should be discarded

(b) tendon transplantations) in cases of infantile paral) is with marked growth disturbances. Immediate success cannot be expected however as the growth of the nerves from the healthy into the paralyzed muscle takes a long time at least two jears.

SCHANZ recommended lumbar puncture in the treatment of infantile paralysis since under its influ ence the reparatory processes develop more rapidly and completely than otherwise. He does not oppose the development of contractures because such opposition is futile and because at a later operation it is desirable that the process shall to a certain extent have been completed. On the other hand he attaches great importance to getting the patient to work early Work in his opinion is much more beneficial than gymnastic exercises In severe paralysis of the foot he performs luxation arthro desis which is similar to Whitman's operation and instead of Stoffel's operation which is often followed by recurrence he performs operations on the mus cles and tendons

FREED stated that to prevent recurrences after Steeffel operation at has been his practice since 1010 to fasten the central nerve ends after the division as high up as possible on the nerve trunk tha fine sile suture so that on growing out they cannot reach the muscle. He has never seen recurrence follow this method.

Dugort (Z)

Abbott L C and Crego C H Operative Length ening of the Femur Southern M J 1928 III 823

The authors report in detail the technique of operative lengthening of the femur and describe the splirt they have devised and the method of its application

A screw is inserted just above the condyle and about 1 in below the lesser trochanter. An incission is them made along the outer side of the femur and 2, hinged sottoothomy of the femur about 5 in long 15 done with a motor saw and osteotome. The deep total 1 included band and bloeps tendon are then sectioned obliquely. Clamps are used to keep the fragments in place. A drain is inserted in the upper angle of the wound and suturing is done with catgot and 1 with sall. The turnbuckle apparatus is spin.

applied. After the operation attention is paid to keeping the tragments in accurate alignment and preventing injury to the soft parts. The drain is removed after forti eight hours. When the inflammation has subsided usually after five or sit days the lengthening process is begun. Is this proceeds the distance be seen the pains on the inside is accurately measured. A gain of about 3 in a day may be expected. A gain of about 3 in a day may be expected. Some figure of the soft of the

The operation has been performed upon eight femora. The oldest child was sixteen years and the youngest ten years of age. The greatest length so cured was 35 in and the least 15 in. There were no infections.

The authors report the eight cases in considerable detail. They do not advocate the method as a routine procedure but believe it of great value in selected cases

ROBERT V FUNSTON M.D.

Campbell W C End Results of Arthroplasty of the Knee J Bone & Join! Surg 1928 x 8 2

A knee toint which was onened about a year after arthroplasty because of slight locking showed a definite joint space about one half the capacity of a normal joint. The articular surfaces were smooth and glistening and there was a small amount of soint fluid. A few adhesions under the quadriceps tendon did not interfere with motion The rough lining membrane resembled in every detail the free transplant of fascia lata that had been put in at the original operation. Histologically this membrane consisted of three layers (1) a dense fibrous layer (2) therocartilage and (3) bone. In some places there were fibrous bundles passing from the cartilage layer to the bone A new functional joint had there fore been formed Extension was complete and there was flexion to oo degrees

Similar findings were made in the cases of joints which were opened because of instability after arthroniasty

The presence of a new joint space after arthroplasty can be demonstrated vlso by roentgenograms Osteoporous is evident for from three to six months but after that length of time the bone appears normal in structure. A very small number of the author's cases showed bone proliferation. The c were usually cases in which acute infectious arthrist and been the original lesson. There may be no related by the original lesson. There may be no related by the original lesson. There may be no relation of the original lesson of the original point arthree is but as a rule a smooth regular point surface is associated with functional efficiency.

In appraising the results of arthrophasty of the hence the nature of the original lesion must be considered. The results of operation in young adults following caute pyogene infection in a single knee ankilosed at an angle of not less than 140 degreewers successful in from 80 to 49 per cent of the cases were successful in from 80 to 49 per cent of the cases myehits extending through the joint was always unsuccessful.

This saturde up based on 11 cases but a concerned cheftly with a cases in which from four to must pear have elapsed since the arthroplasty. The ages of the patients ranged from fourteen to fifty years. The final result as estimated by the patients was excellent in 19 cases and poor in 3. The motion obtained ranged from 45 to 140 edgeres. Walking uy estimated from 45 to 140 edgeres. Walking uy estimated from 45 to 140 edgeres. Walking up estimated from 45 to 140 edgeres.

end of the humerus which received prompt treat ment the arm being put up in flexion and supina tion. As no improvement was noted after diligent massings for three months a modified Page operation was performed.

The origin of the flevor muscles was carefully dissected from the upper third of the ulia. the main common origin including the internal epicondyle separated from the humerus and the condyle with the attached muscles then fastened in a prepared bed on the inner side of the shift of the ulia at the uncuture of the upper third and the lower two thirds

After the operation massage was again instituted
Seven months later the function of the arm wa
almost perfect ROBERT C LONERGAN M D

Henry A. K. An Operation for Making the Fore arm Prehensile After the Los of a Hand Bril J. Surg. 1918, xvi. 183

The author describes a unique reconstruction operation performed on a man who e left hand had been amputated at the wrist

I'wo longitudinal incisions were made one in the midline of the flevor aspect and the other on the dorsal side a fingerbreadth radial to the middle line In order to provide a web at the base of the new digit these incisions were made to approach the ulna at their proximal ends. The inci iors were deepened to the bone-the volar incision between the tendons of the flexor carps radialis and the flexors of the fingers and the dorsal incision between the radial extensors of the wrist and the common extensors of the fingers The periosteum was divided longitudinally and a 5 in rod was separated from the lateral aspect of the radial shalt | I he tendon of the flevor pollicis longus, the radial artery, and the tendon of the flexor carpi radialis were then trans ferred en bloc to the flexor surface of the rod and the skin was sutured around the new digit so formed The ulnar and radial shafts were shortened sufficiently to allow a medial flap of skin to be turned like a hood over their radial aspect. The distal end of the limb resembled a boxing glove

The rod became ankylosed with the radial shaft but after about three months the patient was able to appose the new digit to the ulnar portion of the extremity by pronation and to release it by supination. He then soon became able to grasp objects to write etc.

The author describes also the Krukenberg operation which converts the radius and ulna into two jaws resembling the blades of a crocodile forceps Daylet H Leyenius, M.D.

Brandes Clinical Experience with Tenoplasties on the Legs (Aus der kinnschen Erfahrung mit Schnen plastik en am Bein) Zentralbi f Chir 1918 lv 807

Brandes advises a simple technique for tenoplasty like areful attention to the mechanical and physiological relationships of the muscles and joints and the utilization of all operative possibilities (periostea and tendinous methods tendon sheath substitu

tions etc.) The operation must not be performed when the patient is too young nor should insufficiently functioning muscles be transplanted I is emphasized especially that tenoplasty should not be limited to case" with paralysis (infantile paralysis) since it often gives very good results in flat foot (the method of Hass or that of the author) It is important that before the tenoplasty operative recostruction of the shape or simplification of the mint mechanism should be undertaken (extingation of the talus according to Whitman in talines cal ancu arthrodesis of the lower part of the ankle sout in varus or valgus position of the calcaneus) For paralytic talipes calcaneus the author recommends as a preliminary operation extirpation of the talis with replacement of the troubles tall on the push: back and fre, hened calcaneus. So far as possible the dividing or slitting of tendons should be avoided. Such procedures are reduced to the minimum by good separation of the plane of operation for the stance with ascending and descending plastic work

on both tibalis anticus and tibalis positives music. In cases of clar foot Brandels has bely not suits from Scherbs transplantation of individual long extensor tendons to the melastral hose at correction in Schultzs osteoclast. With a templast, it is possible also to combine a partial resolution of the foot as for example in pea slape partylenes (in the anterior part of the foot-partylenes) in the anterior part of the foot-partylenes in the supplementation of the tondones of the foot-partylenes of the thinks positive the supplementation of the supplementation of

Since tenodeses and fastoodese gave results that reusually unsattsfactory in the long run and the tendons used become stretched Brandes redesure in tenodeses of the ankle joint to place the tendos; in shallow grooves chiseled out of the bone beer. We periode the many of the periode the stretch and to stutte them there in a tot state so that they become very short atticular gaments. This is done in one or several stage?

In conclusion Brandes calls attention to the green importance of improvement in the technique of tenoplasty because of the poor results of the operations on the nerves

DEUTSCHLAENDER stated that he had been favor ably impre sed by indirect neurotization of the paralyzed muscle by its attachment to a healthy muscle combined with static equalization in length Osgood R B Compression Fractures of the Spine

Compression fractures constitute nearly one half of all spinal fractures. The apparently mild nature of the injuries in these cases is an important feature.

Farly diagnosis is essential

Such fractures result most commonly from falls or blows which cause jackkining of the spinal column nith crushing of one or more of the spongy vertebral bodies. In from 70 to 80 per cent of the cases the eleventh or twelfth thoracic or first or second lumbar vertebra is molyed.

In some cases the signs and symptoms may be so shight as to pa's unknoted. Therefore following marked hyperflerion of the signe the possibility of a compression fracture should be considered and iteral and anteroposterior reingenograms should be taken. The chief early symptoms are point to be taken. The chief early symptoms are point of the state of the chief early symptoms are point and mucke sparse which limits motion. Lucermed distinguished three stages in spinial fractures: (1) the stage of the mutual impure (1) a period of comparative well being and (3) the stage in which angular kybboss and nand develor.

in the treatment the general condition the dura tion of the neurological signs and symptoms and the nature of the lesion must be considered

If the patient is in severe shock immediate operation is contra undicated unless it offers the only chance of saving his hie. If the neurological signs appear immediately after the injury there is held loop for recovery. If they come on gradually and increasingly every-effort should be male to treat the condition by manipulation or operation. In cases with increasing or stationary neurological signs and blood in the spinal fluid laminectomy, may be indicated. Care must be taken to present cistus.

and bedsores Fractures of the sacrum and coccy x due to crush ing heal readily when strapping is applied and activit is restricted for a short while. In cases of crushing fracture of a single vertebra, the treatment indicated is immobilization and complete recum bency for from six to eight weeks followed by a gradual return to activity Normal activity may be expected in from four to six months The immobil lization may be obtained by means of a plaster shell or jacket or a Wallace spinal bed The Davis method of reduction by hyperextension is promising Long standing cases with disability and pain may require ank) losing operations It should be remembered however that it is postural correction a d not ankylosis that insures freedom from pain and dis ability and that postural correction is accomplished much more easily before than after an operation DANIEL II LEVINTHAL M D

lfart \ L Spontaneous Dislocations of the Hip Joint During Early Life Report of Twenty Eight Cases Arch Surg 1928 xvii 587

Dislocations of the hip joint may be classified as (1) congenital (2) acquired traumatic and (3) ac

quired non traumatic also termed pathological or spontaneous. In the period from 1923 to 1925 twenty eight cases of spontaneous dislocation of the hip were admitted to the University Hospital

Ann Arbor Michigan In sixteen of the twenty eight cases there was metastatic septic arthritis of the hip joint secondary to remote infection. In five the involvement of the hip had been preceded by an infection of the upper resturatory tract. In three there was a history of acute osteomy elitis and in two a history of discharg ingear. In the remaining six cases the remote sources of infection were pneumonia with empyema aspira tion pneumonia and empsema following tonsilled tomy scarlet fever acute rheumatic fever suppura tive axillary adenitis and wound infection of the face Cultures of pus obtained from eight of the sixteen patients with metastatic septic arthritis showed staphy lococcus aureus in four cases strepto coccus hæmolyticus in two cases staphylococcus albus in one case the tubercle bacillus in two cases and diplocoucus pneumomæ in one case

Four of the twenty eight spontaneous dislocations of the hip were due to anterior poliomy elitis. In each of these cases the head of the femur could be easily displaced and reduced by manipulation and there was a fleanon adduction contracture deformity

of the involved hip In four other cases the etiological factor was con

genital cerebral paralysis with paraplegia

In two cases the dislocation was a complication of polyarticular arthritis or Still's disease and the hip was in a position of flevion adduction and internal rotation

In two cases a positive diagnosis of tuberculosis of the hip point was made. Dislocation is unusual in this condition because of the insidous onset of the infection and the scar formation it produces. During the acute stage of tuberculous arthritis with muscle system the position of fexion abduction and external rotation is the rule. If this position is replaced by flevion adduction and internal rotation before the formation of considerable fibrosis dislocation is unmignent.

In all of the twenty eight cases the dislocation occurred before the age of seventeen years. In the child the acetabula are very shallow and displace

ment is easier than in the adult

In three of the cases reversed the dislocation was bilateral. The unilateral dislocations involved the left hip in auteen cases and the right hip in nincease. In twelve of the twenty live cases of unilateral dislocation there was a pathological condition of the other hip. In all except one of the twenty eight cases the dislocated extremity was in a position of figuron adduction and internal rotation. In the one exception a case of purulent arithms the position was that of flexion abduction and external rotation.

The local pathological condition of the hip joint varied according to the etiological factor the age of the disease and the period of weight bearing. The pathological changes in the sixteen cases with septic

FRACTURES AND DISLOCATIONS

Cowan J F Non Union of Fractures An Experi mental and Clinical Study Ann Sug 1928 DAT HIVEYEL

Cowan states that in Joung animals the perios teum is firmly adherent to the bone in the epiphyseal region but along the shaft is attached more loosely an I is separated from the bone by a layer of rather loose areolar tissue in which are many osteal fibro blastic cells In adults the periosteum is more firmly adherent and often is lacerated at the fracture line The cortical bone is relatively thicker than in the young the haversian canals are smaller and the osteal fibroblasts are fewer

In simple fractures hamorrhage occurs under the periosteum along the shalt and for a short distance into the medulia With laceration of the periosteum the blood extravasates into the soft tissues librar forms in the clot and serves as a bridge across the fracture and as a stimulus to fibroblastic problera tion. As early as the second day, fine capillary buds can be seen growing into the clot from the periosteum and medulla. This forms an ordenatous grapulation tissue which is the beginning of callus. In one week this procallus granulation tissue is well develope ! Ossilication proceeds along the blood vessels thus forming small tubule of bone Cartilage is also deposited. When pressure is exerted on the callus by the fragments there is a tendency toward excessive cartilage production With lifting of the perios teum parts of the cortical bone are deprived of cir culation and he These parts become irregular from erosion and are replaced by the new bone growth

The principal functions of the periosteum seem to be to form a bridge between the fragments and to erve as a limiting membrane confining the blood

and clot in which the callus develops Union depends upon a vascular communication between the procellus granulation tissue of the fragments The meduliary callus depends upon the amount of hamorrhage into the medullary cavity It is usually secondary in importance to the perios teal callus but forms an appreciable bridge

Ro atgenograms of ununited fracture in human hones show a medullary osseous callus filling the ends of the fragments and forming a bone buttres an increa e in the diameter of the end of one or both fragments a decrease in the end of one or rarely both fragments or convexity of the end of one frag mer't usually the upper with concavity of the end of the other and a cleft between the two

Histological examination may show (1) firm fibrous umon (1) loose fibrous bands or (1) a pseudarthrosis with cartilage and synovial mem brane The fibrous mass is avascular

The one finding common to all of the ununited fractures examined by the authors was separation of fragments This can occur only with laceration of the perios eam Its importance is most evident in fractures of the patella and the olecranon in which suture of the fibroperiosteum is necessary to

secure bony union Ingrowth of fibrous tissue from the periosteum in cases of wide separation of its ments will prevent a vascular communication be tween the procallus granulations and thus delai or prevent bony union Bone production takes place but the bone forms across the end of each fragment in a direction transverse to the long and of the shift instead of parallel with the shaft across the fracture line Obviously the closer the approximation to the fragments the less chance there is for this to occur

In the surgical treatment of an ununited fracture the attempt should be made to (1) elevate the periosteum for a short distance on either side of the fibrous bond () remove the fibrous tissue from be tween the fragments (3) open the medullary spaces and (4) present recurrence of fibrous tisspe ingrowth between the fragments To keep the medulla from closing up again Cowan makes a trough long toda nally across the fracture just as for the introduction of an inlay graft To prevent fibrous tissue from grow ing in again he rolls a thin piece of cortex from a rib into a band and inserts it around the ends of the fragments at the line of separation Equally good results have been obtained with a piece of egg menbrane The ends of the medullary spaces and the space between fragments fill up with blood ward later forms a clot and is organized into calus MILLIAN & CLURK M.D.

Murray C R Fracture of the Claricle Sert G r 1 1m tg28 viii 1075

The author describes the application and we of the clavicular cross in the treatment of fract te of the clavicle. He prefers it to other methods because it allows function in the affected extremity can e bo atrophy and requires little or no alter treatment DANIEL H LEVENTER MD

Likenbary C F Fractures of the Elbow Through or Near the Lower Epiphysis of the Humerus J Rone & Joint Surg 1028 x 757

Before the reduction of a fracture of the elbows attempted a roentgenogram should be male Reduction is best carried out with the part held under the fluoroscope and with the patient under general anasthesia In lieu of the fluoroscope another roest genogram should be made before the splints are applied and before the patient recovers conscion ness If the findings are not sati factory another

attempt at reduction should be made Flexing the forearm without at the same time to ducing the posterior displacement will merely rotate the lower fragments transversely Flex on will read ily help to reduce a fracture but will not accomplish reduction

lolkmann's contracture is best prevented by Leeping the patient under ob ervation after the reduction in order that the splints may be re-adjusted whenever necessary A few hours of he lect mar lead to a condition that can never be corrected

H LARLE CONWELL M.D.

older children who have well developed femoral heads and acetabula

ALLISON emphasizes the importance of early re duction and gentle reduction in congenital dislocation of the hip. He is in favor of open reduction as it gives promise of a higher percentage of final cures than closed reduction Because of the changes in bone which result from long continued immobilization the plaster cast should be removed as soon as possible. Open operation shortens the period of immobilization Some of the obstacles to be over come are (r) shallowness of the acetabulum (2) irregular shape of the femoral head (1) torsion of the neck (4) shortness of the abductor muscles (s) shortness of the posterior muscles fascia lata and iliotibial hand and (6) shortness of the ilio femoral band. In some cases distortion and other developmental anomalies in the upper femoral region preclude the possibility of a good functional hip

even when reduction is accomplished

GILL reports the results of seventy five open operations for old or irreducible congenital dislocation of the hip. He divides the cases into three groups according to the type of operation required and the anatomical and functional results which may be expected from it Cases of the first group are those in which the acetabulum is shallow and the femoral head projects beyond its upper margin but is not completely dislocated. In the second group are cases in which there is complete dislocation but by open operation the head of the femur can be re placed in the acetabulum without great force or tension. The third group is made up of cases in which there is upward displacement of the head of from 1 to 4 in and the head cannot be replaced in the original acetabulum at the time of operation or can be replaced only by the use of excessive force

sall performs three types of operation. In Type 1 a bone shell is strend down from the outer plate of the issum over and behind the surreduced head and no attempt is made to use the original actebulum on a steps of the strend of the strend

Deformities of the head of the femur are fre quently encountered. The mushroom shaped heads are easily injured in reduction. The entire cartilage may be knocked off. When this occurs the result must be bony ankylosis. Version of the neck has never aussed trouble enough to justify osteoloms. In cases of bilateral dislocation good mobility is secured in one but hefore the other is treatly

In all of Gall's operatively treated cases a strong stable joint has been secured. In those in which operations of Types I and a were performed there is good mobility. Of those in which the Type 3 operation was done ank losis resulted in three cases and in the others the mobility is not so good as in The transparence of the open method although he at tempts closed reduction in the cases of all patients under six jears of age.

Jones J P Interarticular Dislocation of the Patella Brit J Surg 1928 vvi 338

A gut eleven years of age injured her right lines by shipping on the edge of a pavement and over a bics clein the dark. The noentgenogram showed that the upper edge of the pattella had been pulled down and wedged in the intercondy lar notch of the femur is manipulation under ansistensi failed to reduce the dislocation open operation was done. It was necessary to lever the pattella from the intercondylar notch but when once freed it retained its normal position without suture. The quadriceps extensor insertion had been stripped from the upper and anterior surface of the pattella.

After closure of the wound a plaster cast was applied. This was worn for four weeks being taken off only for massage and movements. Uneventful recovery resulted.

The mechanism of the type of inpure sustained in this cae has never been satisfactorily explained. The author suggests that the first movement is an extreme and forrible fearnon of the knee which leaves the upper end of the patella on a level with the intercondjar noted of the femura and that this is rapidly followed by extension in which the patella remains in the authors surface of the patella's activative for the authors wantee of the patella's activative border wedging it firmly between the two condules of the femure.

ROBERT CLEYERGA MID

272

arthritis of the hip joint ranged from a serous to a purulent arthritis with or without destruction of bone and soft tissue

In the second and third groups of cases with in volvement of the lower and upper neurone respec tively there were no arthritic changes. The local pathological condition consisted in a disturbance of the normal muscular balance resulting from the flaccid paralysis of anterior poliomy elitis and muscle incoordination with increased muscle tone due to a cerebral lesson

In the fourth group the local pathological condition varied from slight to extensive bone and joint destruction with disturbance of the normal muscle balance due to muscle spasm during the acute period

of the disease

The author concludes that a derangement in the muscle balance is the one pathological factor common to all cases and shoul I be considered the essen tial factor in the mechanism of development of the

dislocation Recently it has been demonstrated by Jones that the mechanism of production of the dislocation is a derangement of the normal action of the muscles surrounding the hip joint and is not desendent upon lesions of bone or ligament. The normal muscular arrangement about the hip joint may be altered by muscle spasm muscle paralysis and muscle inco ordination Muscle spasm is always present during the acute phase of hip-joint infection and unless treatment is given the extremity assumes an attitude of flexion associated with either abduction and external rotation or adduction and internal rotation During the acute stage of hip joint infection the position most frequently assumed is flexion abduc tion and external rotation without the production of dislocation. In the position of flexion adduction and internal rotation which is not uncommon dis location is immunent. The first position is one of stability the second one of instability

The chinical signs and symptoms of spontaneous dislocation of the hip are similar to those pre ent in congenital dislocation-a definite limp and lordosis when the subject is walking actual and apparent shortening and the presence of the greater tro-

chanter above Nelaton s line The author believes that spontaneous dislocation of the hip joint is preventable and that emphasis should be placed upon preventive treatment because when the deformity is once established any attempt at its correction requires a long period of hospitaliza The necessary mechanical apparatus should be applied to prevent the patient from assuming the position of instability During the acute stage of any infectious process involving the hip joint the muscle spasm may be relieved by the application of skin traction and the extremity placed in extension and abduction the position of stability If bons ankylosis is anticipated a solid plaster spica may be applied in the optimum position for ankylosis of the hip joint In the author's opinion the optimum position for ankylosis is neutral as regards abduc

tion adduction and rotation and the position of flexion should depend entirely upon the patients occupation In children the hip joint is placed in

flexion of about o degrees

The treatment of patients with an established de formity is a complicated problem. Deformities of other joints may demand correction before the dis location is reduced. In dislocation of the hip result ing from muscle spasm the prognosis for function is furly good Incision and drainage of abscesses should be done if necessary and skin traction ap plied to the dislocated extremity. The traction should be applied first in the line of deformity and with gradual cessation of the muscle spasm the line of traction changed by degrees to a position of ex tension and abduction

The degree of disability depends upon the dis turbance of the weight bearing line the true and apparent shortening the extent of bone and joint destruction the degree of mobility and stability whether the hip joint involvement is unilateral or

bilateral and the pre ence or absence of associated

deformities and of pain Stability and mobility are both of importance in the function of the hip joint but stability is the more important A stable and painless hip joint may be obtained by skeletal traction followed by arthrodesis of the joint In the presence of bony ankylosis a subtrochanteric osteotomy may improve the weight bearing line and correct the apparent shortening Skeletal traction followed by reduction of the dislocation is indicated when the bone and joint de NORMAN C BULLOCK M D struction is slight

Swett P P An Operation for the Reduction of Certain Types of Congenital Dislocation of the

Hip J B neer Jo 13n g 1928 x 675 Allison N The Adaptive Changes in the Hip in Congenital Dislocation and Their Importance

in Treatment J Bone & Jos ! Surg 19 8 x 687 Gill A B Operation for Old or Irreducible Con genital Dislocation of the Hip J Bone & Joul Surg 10 8 7 605

Swerr proposes subtrochanteric osteotomy for streducible dislocations of the hip and has treated five cases by this procedure. After the osteotom) through a Smith Petersen incision the head can easily be placed in the acetabulum. The fragments of course overlap and there is about an inch of shortening but the leg is longer than before the reduction and after healing of the osteotomy there is good function. In some cases the roentgenogram shows a badly distorted relation of the head neck and shaft but this does not seem to interfere with function Convalescence is longer than after simple fractures and postoperative care is most important Swett suggests that redressment and the application of a new cast after three weeks or traction in abduc tion immediately after the operation might result in better alignment and more length. The operation provides a means of reduction when all other meth ods fail and is justified especially in the cases of

MacLeod J M H Sicard Forestier Gaugler and Others Discussion on the Treatment of Vari cose Ulcers by Intravenous Injections Proc Roy Soc Vied Lond 1938 xu 18 3

SIGLAD FORESTIER and GAUGIER who read the first and chel paper in his sy mposium summarded the conditions favoring the development of various cliera as (1) general factors affecting the blood vessels such as a hereditary predisposition ender symptotic edge-cast age and sphilis and (2) local or mechanical influences such as intrapelves pressure constant standing trauma himorrhaptic pressure constant standing trauma himorrhaptic local infections and exema of the slan and local infections that the form of weakness of the walls and valves of the vein and of the supporting perivascular tissue

In postphiebitic ulceration developing in an adematous leg with venectasia obliterating injections are contra indicated. The treatment should

consist in rest massage and support

Dirty serpignous ulcers with eczema pigmenta tion and peripheral sclerosis are likewise unsuitable for injection and should be treated by rest disinfection vaccine ultraviolet light and surgery

Cases of ulcer with moderate or mild local dis turbance should be treated by intravenous oblitera two injections and local treatment of the lesion

Mixed syphilitic and varicose ulceration should be treated by both anti-syphilis methods and

obliterative injections

The obliteration is brought about by the injection of 2 or 3 c cm of a 20 to 6 oper cent solution of sodium salicylate in water. Quinnie urethane hy pertoine saline solution solution maintain and 50 to 6 per cent glucose have also been used but are not so good. A tourinquet may or may not be epical. The injections are given with the patient lying down and are made into the vens prorumal lying down and are made into the vens prorumal the modern of prevent induce pain and sloughing the modern of prevent induce pain and sloughing the modern of processing the solution of sodium and the consideration of the consideration

Illicars reported good results in 200 cases in 35 of which there was active ulceration at the time of injection. He believes that in the production of the varicose ulcers trophic traumatic and infectious factors are of prime importance. The less in fection enters into the picture the greater the success

of the obliterative injection method

From the several thousands of cases in which obliterative injections have been made without accident the conclusion may be drawn that the method is safe. There should be no local or distant focus from which the injected ven may become infected and excessive muscular activity should be avoided for about three weeks after the injection.

In the further discussion other small series of cases were reported. Mention was made of the fact that the intravascular injection of irritative substances causes a frue endovenitis with the formation of a very tough and adherent thrombus which is

quite different from an intravascular clot. It was emphasized that at the time of injection the limb must be perfectly at rest and flactd and after the injection it should remain so for a half hour. If there is an active return flow of blood in average minjection is contra-indicated. This is easily determined by placing two fingers on the verin a should distance apart. If the emit it was be concluded that there is an upward flow of blood in the verin that there is an upward flow of blood in the verin that there is an upward flow of blood in the verin.

McPheeters H O and Rice C O Varicose Veins Complications Direct and Associated Follow ing the Injection Treatment A Review of the Literature J im V is 1928 xc 1000

The authors emphasize that the treatment of varicose veins by the injection method should not be attempted by those who are not aware of the complications as errors in technique may bring this very satisfactory mode of treatment into disrepute

The mortality rate following the injection treat ment of varicose veins is much less than that following operative freatment. As yet no one solution

has been found entirely adequate for every purpose.

The injection treatment of varicose veins has passed the experimental stage and has been proved a very rational procedure which should be ac-

cepted to supplant other well recognized methods BLOOD TRANSFUSION

Freezer C R E Hæmatemesis and Purpura Splenectomy Death from Perforation of a Duodenal Ulcer Guys Hasp Rep Lond 1928 Ivt in 465 Melæna and Purpura Splenectomy Recovery

Guys Hosp Rep Lond 1928 Ivviii 469 Rake C W Preliminary Note on a Case of Hæ

matemesis and Spontaneous Ecchymoses
Guy: Hosp Rep Lond 1928 Ixviii 470
Morton Palmer F W The Hæmorrhagic Dia

thesis in a Child of Twelve Simulating Chronic Gastric Ulcer Gays Hosp Rep Lond 1928 IXVIII 473

FREEZE reports the case of a box nuceten years old who had three attacks of purpure harmorrhage in a period of three vears. The first two attacks cased spontaneously. The onset of the last attack was characterized by pain in the left side of the abdomen followed by showers of petechia in the skin and bleeding from the nose and mouth. The first night the patient's as in the hospital he passed a first singht the started was off the distribution of the transition of the transition of the side of the start system and there was blood in the urine that the start system and there was blood in the urine that the start system and the start system and the start start stoped when faintne occurred.

Although the patient was in a very weakened condition with a hamoglobin value of only 30 per cent and an erythrocyte count of only 2 200 000 splenectomy was done. After the operation there was almost unmediate improvement in the patient's condition and there were no further hemorrhages On the faith day fintelined developed the abdomen

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Gould E P and Patey D H Primary Throm bosis of the Axillary Vein A Study of Eight Gases Brit J Surg 1928 xvi 208

The eight cases of pnmary thromboss of the avil lary ven reported were those of males ranging in age from twenty three to forty years. Six of the patients were between twenty and thirty years old The right arm was affected in all but one case. The onset in all cases seemed to have been related to a muscular effort or strain.

Most investigators agree that traums a an important factor. The author injected the vein of post morten specimens with plaster of Paris. One experment showed a groove in the vein at the site of the costcooracoid ligament while in two others a broad seen. In addition a practically constant bruspied valve was found at this level so situated that pressure of the subclaus is music caused stretching of the vein wall in the long axis of the valve. The authors are of the opinion that a rupture of the vein is the important pathological lesion. As predippening facditional control of the present of the subclause of the of importance.

of importance

The history and clinical features are usually typi
cal. In doubtful cases the possibility of syphilis and
tuberculosis should be considered. Any bony abnor

mulity will be revealed by the \ ray
The prognosis is uniformly good Some disability

and swelling of the arm may persist for a time after excessive physical exercise The treatment consists in rest elevation of the

part and massage after two or three weeks
WILLIAM J PICKETT M D

MINTAN 1

Dawbarn R \ Earlam F and Evans W II
The Relation of the Blood Platelets to Throm
bosis After Operation and Parturition J Path
& Batterio 1928 xxv 833

After operations and child birth and especially after caserane section the number of plateless in the blood begins to rise about the fourth day increases to a maximum at about the tenth day and there after fall slowly to the normal level A diminution of plateles is associated with an increase and in excess of plateles with a decrease in the blood coagulation time. See a second of the control of the plateles with a decrease in the blood of the plateles with a decrease in the blood of the plateles with a decrease in the blood of the plateles with a decrease in the blood of the plateles with the tenth day after operation of fractuation. The suthors found no change in the platelet count.

The authors found no change in the platelet count after hæmorrhage anæsthesia or bed rest and no constant variation in sepsis. The platelet reaction

was excited by fractures A similar rise was noted during convalescence from acute infections such as lobar pneumonia

It is suggested that the features common to the various stimuli which have been identified are usue njury and the absorption of breakdown product Jacob M Mosa W D

Allen A W and Smithwick R H. The Use of Foreign Protein in the Treatment of Peripheral Vascular Diseases. The Results of Intravenous Injections of Typhoid Vaccine. J. 4m. M. Au. 1978. Xet. 1161.

Non specific foreign protein in the form of intra venous injections of typhoid vaccine was u.ed in the treatment of twenty five cases of peripheral va cular disease.

Two of these cases were of vasomotor orgon. Intriteen were cases of presence gangenee chin cally thrombo anguits obliterans and sax were cases of artenoxicorous gangenee (undudant those with associated diabetes). Four cases although their chief character itse stended to place them in the vasomotor group showed elements that belonged to other groups and have not been classified. The majority of the lessons were far advanced and of long standing. Nunteen of the parties of the military of the lessons were far advanced and of long standing. Nunteen of the parties of the military of the lessons were far advanced and of long standing. Nunteen of the parties of the

The treatments varied in number from one to fifteen and were given without deletenous effects over periods ranging from three weeks to fiftee months. Of the nunetien patients who intered the hospital with complete disability for the first particular to the considered unrelieved. The authors believe that two of the major amputations might have been avoided by more prolonged pallitive procedures. Twelve of the nuneteen patients with complete dealings, have been able to return to their former abulity, have been able to return to their former abulity, have been able to return to their former abulity, have been able to return to their former abulity have been able to return to their former abulity.

Typhod vaccine given intravenously causes a definite reaction much like that observed following periaterial sympathectomy with definite relief at the para and improvement is the appearance of the leason. The reaction can be repeated at interest exercit also so more with subsequently and the exercit also rome with subsequently and the property of th

The authors believe that the method described hastens the development of an adequate collateral circulation more effectively than any conservative measures heretolore suggested

JOHN H GAPLOCK MD

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Desjardins A U Radiotherapy in Actinomy costs
Radiology 1928 21 321

Many cases have been reported which show that the roentgen rays are a potent agent in the treat ment of actionmycotic lessions. The earlier and the more superficial the lessons the more rapidly the roentgen rays cruse them to undergo involution and disappear.

Actinomy cotic lesions of the head and neck can nearly always be eradicated by thorough irradiation the dramage of purulent collections and the internal use of increasing daily doses of sodium or potassium modife. Undoubtedly however the irradiation i

the chief factor in the cure

When actinomycosis attacks the intestine or the lungs the chaese often becomes extensive before its true character is recognized. In such cases irradia ton is seldom successful in effecting a cure but slight or great improvement is not uncommon. Bet et results could undoubtedly be obtained it the diagnoss nere made and the treatment instituted earlier.

MISCELLANEOUS

Pohle E A and Sawyer R A Physical and Bio logical Problems in Heliotherapy Am J Roentgenol 1928 vs 338

Continuing a series of articles describing their studies on the behavior of the mercury vapor lamp Poble and Sawyer report in this article their experi ments dealing with the problem of dosimetry cause of the importance of establishing a reproducible unit which will follow the biological effect in the emission of ultraviolet from a lamp of this type the experiments included (1) the relation of the biologically important lines in the mercury vapor spectrum during one thousand hours of burner life (1) accurate measurements of the total intensity of the emission of a quartz mercury vapor burner (3) a comparison of corresponding measurements with the photo electri al cell (4) a comparison of a photochemical test to determine its limitations and (5) controls on a sufficient number of patients to establish a skin tolerance dose

The article is summarized briefly by the authors as follows

A study has been made of the spectral energy characteristics of the mercury vapor lamp. A vacuum type burner at 110 volts A. C. was used in all mixelizations. Measurements of the variation of the relative intensity of the lines 3130, 2022 2067, 2084 1650 2336 A under varying conditions age of burner and operation are reported.

2 The ultraviolet emission has also been measured by a cadmium cell in uvol glass by the starch joine test and by the skin crythema. It may be concluded from these investigations that the cad mium cell gives a satisfactor reading of the crythema producing ultraviolet part of the mercury vapor spectrum.

3 A method is proposed by which the calibration of a photo electric cell in absolute units can be carried out. This permits checking the sensitivity of an individual cell and calibrating other cadmium cells in the same units. The correlation between this absolute unit and the biological effect (skin ery thema) has been established. Gerrature Brand

Dixon W E and Heald C B Ultraviolet Rays and the General Public Brit M J 19 8 n 642 643 644

Dixor discusses the nature of radiation the curative rays and the sources from which they may be obtained the physiological action of light and different persons. As the advertising literature for lamps gives the impression that irradiation by give the proposition of the public and the physiological action and emphasizes the necessity for protection of the public against its improper use

Heath reports that the value of ultravolet are diaton when it is properly employed and its dangers when it is improperly employed and its dangers when it is improperly employed led the British Medical Association to appoint a subcommittee to consider how best the treatment might be safe guarded and its abuses abolished The final recom

mendation of this committee was as follows

In view of the risks to the public involved in the use of electricity and radiation as methods of treat ment by untrained and unqualified persons it is to be desired (1) that suitable courses of training should be organized under medical direction for persons who wish to administer this form of treat ment (2) that persons who have satisfactorily fol lowed such a course should be entitled to have their names entered on an approved roll (3) that one of the conditions attached to admission to and main tenance on the approved roll should be abstention from the treatment of any patient except on the responsibility and under the general supervision of a registered medical practitioner and (a) that na tients who require electrical or radiation treatment. should be referred only to those persons whose names are on the approved roll

Heald cites evidence of the harm that can result from the use of electricity in the form of \taxs ultravioletrass duathermy etc and in summarizing states that the unqualified electrotherapist should be aboit hed by law GERTRIDE PEARD -76

became distended and tympanic and death occurred suddenly Autopsy revealed two ulcers on the pos terior surface of the duodenum one of which had

ulcerated into the lesser peritoneal cavity

The second article in this group the author of which is not mentioned reports a case of purpura which began with a few petechia on the limbs and within three months was associated with frequent attacks of bleeding from the mucous membrane of the mouth and intestinal tract. The hæmoglobin value was 33 per cent and the red cell count less than 3 000 000 Splenectomy wa followed by a rapid return of the hemoglobin to normal

RAKE reports the case of a pregnant woman with a hæmorrhagic diathesis probably due to an earlier puerperal infection. On account of the pregnancy no operative treatment was instituted

MORTON PALMER reports a case of harmorrhagic diathesis in a child of twelve years which was char actenzed by rather severe attacks of gastric puin associated with hæmatemesis submucous hæmor rhages and subcutaneous and intramuscular pain probably due to intramuscular hæmorrhages condition was believed to be Henoch's purpura

PAUL W SWEET M D

Evans W H The Blood Changes After Splenec tomy in Splenic Anæmia Purpura Hæmor rhagica and Acholuric Jaundice with Special Reference to Platelets and Congulation J

Path & Bacteriol 1928 XXXI 815 Of eleven cases in which splenectomy was per formed the platelets showed a considerable rise in ten One case of purpura hæmorrhagica failed to show a marked rise. In one case of splenic anæmia (Rosenthal's thrombocythæmic type) the platelets rose to a high level which was maintained until death resulted from mesenteric thrombosis

The clotting time showed a rough parallelism to the platelet level The clot retraction seemed much

more proportional to the platelet count

There seems to be no correlation between the immediate and transient rise of the granular leuco cytes and the slower and more persistent rise of the platelets after splenectomy JCHN J MALONEY M D

LYMPH GLANDS AND LYMPHATIC VESSELS Bertwistle A P and Gregg A L Elephantiasis

Brit J Surg 1928 TV 267

It is important to distinguish elephantiasis from lymphatic ædema in which no hypertrophy but mercly a distention of the cells and spaces is found Elephantiasis is a hyperplasia of the skin and sub cutaneous tissues in a part suffering from lymphatic and probably venous obstruction

The causative bacterium is apparently a strepto coccus which finds lodgment in an area of diminished resistance The focus may be situated elsewhere in the body Histologically the di ease is mani fested first by a soft stage characterized by active subcuticular metamorphosis in which the connective tissues form plasma cells which are seen through out the skin and hypodermis and then by a hard stage characterized by an increase in collaginous material in which the soft swelling gives place to hyperplastic tissue The surface epithelium first shows hyperplasia and later hyperkeratinization

The condition is preceded by lymphatic and mous obstruction. The latter is caused usually venous obstruction by a thrombo is while the former may be con genital tranmatic or infective. The infection may be due to filaria tuberculosis syphilis lentosi granuloma inguinale or malignance. The author mentions al o a type due to toxic absorption of a chemical nature

Flephantiasis may occur in any part of the body being reported on the scalp face tongue breast penis testis vulva and buttocks. The arms legs and scrotum are affected most frequently The parts involved in tropical elephantiasis vary with the country

The onset dates back to an attack of lymphan gitis This may be sudden and accompany or follow an acute illness If slight residual thickening follows repeated attacks a diagnosi of beginning elephan

tiasis may be made The first stage in the progress of the disea e is characterized by a smooth uniform swelling or thickening of the part. During the second stage the skin becomes definitely thickened and acquire an uneven ridged appearance with hypertrophy of the muscles of the part. In the third stage the skin and subcutaneous tissues are greatly thickened and thrown into folds and deep sulci In the cae of the scrotum a diffuse ruggedness is seen Weeping fis ures and indolent ulcers are sometimes formed

In the treatment all foct of infection must first be eradicated The patient should be given bed rest and efforts should be made to improve his health The use of an autogenous vaccine prepared from fluid withdrawn from the tissues shortly after the intradermal injection of salt solution into the affected area during an attack of fever has been of con siderable benefit Elevation of the affected part must be continued throughout treatment When the lower limbs are involved some type of elasti hose should be worn. In the absence of inflam mation massage is valuable in improving the cir culation When these procedures fail operation is indicated

Many surgeons have obtained succe sful results from the Kondoléon operation. The method of Sistrunk which consists in excising a strip of skin subcutaneous tissue and three fingerbreadths of fascia on the external and internal a pect of the leg has also been followed by excellent results. In cases of scrotal enlargement amputation of the scrotum with careful plastic work to assure lymph drainage is indicated. The prognosis as regards life is ordinarily good but in the late stages the patient may be bedindden with deformity or pain

The author reports six cases with a number of WILLIAM J PICKETT M D

photo_raphs

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Desjardins A U Radiotherapy in Actinomycosis
Radiology 1928 II 321

Many cases have been reported which show that the roenigen rays are a potent agent in the treat ment of actionny cotic lesions. The earlier and the more superficial the lesions the more rapidly the roenigen rays cause them to undergo involution and disappear.

Actinomy cotic lessons of the head and neck can nearly always be eradicated by thorough irradiation the drainage of purulent collections and the internal use of increasing daily doses of sodium or potassium odde. Undoubtedly however the irradiation is

the chief factor in the cure

When actinomycosis attacks the intestine or the longs the discase often becomes extensive before its true character is recognized. In such cases irradia toon is seldom successful in effecting a cure but slight or great improvement is not uncommon. Better results could undoubtedly be obtained if the diagnosis were made and the treatment instituted earlier.

MISCELLANEOUS

Pohle E A and Sawyer R A Physical and Bio logical Problems in Heliotherapy Am J Roenigenol 1928 xx 338

Continuing a series of articles describing their studies on the behavior of the mercury vapor lamp Pohle and Sawyer report in this article their experi ments dealing with the problem of dosimetry Be cause of the importance of establishing a repro ducible unit which will follow the biological effect in the emission of ultraviolet from a lamp of this type the experiments included (1) the relation of the biologically important lines in the mercury vapor spe trum during one thousand hours of burner life (a) ar trate measurements of the total intensity of the emission of a quartz mercury vapor burner (3) a companion of corresponding measurements with the photo electrical cell (4) a comparison of a photochemical test to determine its limitations and (5) controls on a sufficient number of patients to establish a sain tolerance dose

The article is summarized briefly by the authors as follows

1. A stu h has been made of the spectral energy characteristics mercury vapor lamp. A vacuum type burser at 110 volts A. C. was used an all measured as a Measurements of the variation of the relative intensity of the lines 3313 30 2 200 301 250, 250 450 and er varying conditions [16] age of burner and operation are reported

2 The ultrawolet emission has also been meas ured by a cadmium cell in uviol glass by the starch is not an experiment of the starch or the starch of the concluded from these investigations that the cad mium cell gives a satisfactor reading of the erv thema producing ultraviolet part of the mercury vapor spectrum.

3 A method is proposed by which the calibration of a photo electric cell in absolute units can be carried out. This permits checking, the sensitivity of an individual cell and calibrating other cadmium cells in the same units. The correlation between this absolute unit and the biological effect (skin erythema) has been established. Gerkrüche Bruen.

Dixon W. E. and Heald C. B. Ultraviolet Rays and the General Public Brit M. J. 19 8 n. 64 643 644

Dixor discusses the nature of radiation the curative rais and the sources from which they may be obtained the physiological action of light and the variations in the ensitiveness of the skim of different persons. As the advertising literature for lamps gives the impression that irradiation by any properties of the properties of the properties of the properties of the public properties of the properties with an one tradiation and emphasizes the necessity for protection of the public against its immorer use

Heald reports that the value of ultravolet arm diation when it is properly employed and its dangers when it is improperly employed led the British Medical Association to appoint a subcommittee to consider how best the treatment might be safe guarded and its abuses abobished. The final recommendation of this committee was as follows.

In view of the risks to the public involved in the use of electricity and radiation as methods of treat ment by untrained and unqualified persons it is to be desired (r) that suitable courses of training should be organized under medical direction for persons who wish to administer this form of treat ment (2) that persons who have satisfactorily fol lowed such a course should be entitled to have their names entered on an approved roll (3) that one of the conditions attached to admission to and main tenance on the approved roll should be abstention from the treatment of any patient except on the responsibility and under the general supervision of a regi tered medical practitioner and (a) that pa tients who require electrical or radiation treatment should be referred only to those persons whose names are on the approved roll

Heald cites evidence of the harm that can result from the use of electricity in the form of \(\bar{n}\) rays ultraviolet rays diathermy etc and in summarizing stries that the unqualified electrotherapist should be abolished by law GERERUER Brush

7

MISCELLANEOUS

CLINICAL ENTITIES-GENERAL PHYSIO LOGICAL CONDITIONS

McPheeters H O Ulcer Cruris The Etiology Pathogenesis and Treatment Surg bynec & 06 1 1928 thu 400

McPheeters states that older crurs is the end result of the trophoneurotic disturbance in the leg and foot resulting from the stagnation of blood serum in the tissues secondary to varicose veins The attempt to cure the ulcer first and the veins

second is wrong both in theory and practice The varicose veins are obliterated far better by

the injection treatment than by operation The supportive bandage for the affected ex

tremity with the rubber sponge pressure over the ulceration is the oldest and vet the most efficient treatment of the present day Judicious employment of the skin graft at the

proper time greatly shortens the period of healing To prevent recurrence all long standing cases with extensive involvement must have continued support for long periods of time

The duration and extent of the support must be decided in each case

Linally by the use of the described technique all varicose ulcers can be healed and kept healed If they do not heal it means that the operator has not been keen enough to locate the vern which causes the condition and is often under the older bed or that he has been negligent in giving the extremity the necessary lasting support

Strong L C The Non Genetic Appearance of Various Types of Neoplasia in Experimental Animals J Canoer Research 1928 n 108

After many years of brother to sister matings of mice the author has developed a sub strain in which no individual ever developed any type of neoplasia although the mice were kept under conditions ideal for neoplasia and lived far beyond the so-called cancer age. Since in sub branch lines of the same stock there were produced certain individuals which developed certain types of carcinoma it cannot be said that the stock is non susceptible

There was developed also by brother to sister matings another pedigreed stock of which no individual in direct descent ever developed neoplasia

When a individuals thus derived were crossed a peculiar type of neoplastic tissue a tumor melanotic in character resulted This was the only melanotic tumor observed by the author in a laboratory ani

mal in ten years The mouse with this tumor was bred to his own

sister and the ensuing 12 daughters were mated back to the fath t In this back cross generation of 156 offspring no individual developed the same type of tumor

By the same method a other tumors were developed one a small round cell sarcoma and the other an aleukamic lymphoblastoma

The author concludes that this type of tumor is not due to a simple mendelian reces ive unless an extremely large number of mendelian units is assumed He believes it may be explained as a GEORGE A COLLETT M.D. somatic mutation

GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

Findley G M Histamine and Infection J Pak & Bacteriol 1918 vvii 633

Findlay s experimental work leads him to suggest that the well known relationship between injury and the localization of organisms in injured tissue is due to the liberation by injured to sue of histamine or a he tamme like substance which causes dilatation of the capillaries and increased permeability of the capil lary endothelium with the result that organisms present in the blood stream are enabled to escape into the surrounding tissues

This theory is supported by experiments with the viruses of fowl pox vaccinia and the Rous sarcoma staphylococcus aureus streptococcus and pneumo-Iscos M M as MD coccus

Long P II Olitsky P K and Stewart F W The Rule of Streptococci in Experimental Poliomye litts of the Monkey J E per Med 1928 x 10

Several investigators have reported the isolation of streptococci from poliomyelitic tissues of man and of animals The authors study was undertaken especially to determine the source of the streptococci and their relation to the etiology of the disease It included a compari on of the strains of streptococci isolated from monkeys affected with poliom eli is

According to Bull the streptococci recovered from poliomyelitic tissues have no etiological or pathological relationship to the virus of poliomy elitis or curring only as secondary invaders in the disease Smillie and Amoss suggested that the bacteria may

be agonal invaders

The results of the authors experiments sugget that the streptococci are contaminants introduced into the cultures during the grinding of the tissues Their source may therefore be the air of the room in which the cultures are made. The authors could not determine any etiological relationship of the streptococci to poliomy elitis and concluded that there is a true virus of poliomyehtis in man and the SANCEL KARN MID monkey

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS ISSUE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRE! TO MAY BE FOUND

SURGERY OF THE HEAD AND NECK

A case of exencephalia S F BERMANN Bol Soc de obst y ginec de Buenos Aires 1028 vii 246

Avulsion of the scalp A G BANKS Brit M J 1928 n Sat

Skull defects repaired by tibial grafts F A HADLEY] College Surg Australasia 1928 1 208 Self inflicted wounds through the skull followed by re

tovery J J Levry Brit M J 1918 11 910

Late results of trephination of the cranium for traumatic

lescos T Alajouanne J Maisonner and D Letit Durantis J de chir 1928 xxxii 397

A case of perforating sarcoma of the cranium I Biggaquer I resse med Par 1928 xxxvi 11 Contribution to the technique of roentgenographic ex

amination of the head A LABAT and Y CAMPLAN I de med de Bordeaux 1928 cv 09

The sella turcica in the occipito frontal projection P L VALDINI Radiol med 19 8 xv 851 Aseptic cavernous sinus thrombosis H C Topp

Oliahoma State VI Ass 1928 vti 286 Syndrome of the external wall of the cavernous sinus probably of syphilitic origin A RICALDONI Rev oto

reuro oftalmol y de cirug neurol 1928 in 3 o Rupture of the lateral sinus due to skull fracture unter tention recovery RICARD Lyon chir 1928 XXV 601 Congenital malformations of the face J ESTELLA and

B De Castro Clin y lab 1928 x1 177 Traumatic cyst of the face J H Easton Proc Roy Soc Med Lond 1928 xxii 2

Lupoid chancre of the chin with septicamic manifesta ins C A ARGANARAZ and J V JIMÉNEZ Bol inst de elln quit 1018 IV 320

Some orthop edic problems of the lower jaw with special reference to unilateral shortening H Ivy and L Curris J Bone & Joint Surg 1928 x 645 [192] An umsual fracture of the superior marilla the evalua tion of the disability O L Gomez Rev de especiali

dades 4soc med argent 1928 in 511 bon mirrestin, jaw tumors 1 Pickerial Med J Australia 1928 11 591

Adamantinomata C C Sistmons Ann Surg 1028 lattville, 60 1921 leute non-epidemic infectious parotitis W R HUM
PRAES and L L. Suerwood Minnesota Med 1928 vi 722

Chromic tumor forming inflammations of the oral sale vary glands in the light of critical analysi E Atevolt Ann stal di chir 1928 vii 957

Voluntary propulsion of the eyes H FERRER Rev ato neu o-oftalm 1 y de cirug neu ol 1928 in 403 Am J Ophth 1928 xi 883

Roentgenological examination of foreign bodies in the orbital cavity E L LANARI Semana med 1029 xxxv

Fracture of the optic canal O BARKAN and H BARKAN

Am J Ophth 19 8 xt 767 [193]
The late result after mustard gas burn of the cyes H NEAME Proc Roy Sic Med Lond 1028 xxii The treatment of ocular wounds BARRAQUER \rch

de med cirug y especial 1929 ix 33 The management of eve injuries F C Boors

Lansas M Soc 1028 XXIX 360 Intra-ocular hamorrhages and meningeal hamorrhages A L BARRIERE Rev oto neuro oftalmol y de cirue

neurol 1928 11 339 The eye and spectacles in heraldry Bot I Ouhth

1028 111 100 The Mongolian eye H GIFFORD Am J Ophth 1928 XI 582

Near vision and illumination in industry I A Davis Ohio State M I 1928 TRIV 875 Examination of the eyes and eyesight of young children

T WHITTINGTON Brit M J 1928 is 889 Functional diplopis in a schoolboy A LIVEAN Brit I Onhth 1028 vn. 589 How the physician can help to conserve vision and

prevent blindness J GREEN J Kansas M Soc 1028 XXIX 355 Gentian violet in ophthalmology R I Sisson Am I Ophth 1928 ti 893

The eye in relation to general di eases M WILNER

The eye in relation to general the control of the linous M I 1 7938 ltv 377

The eye in relation to headache W A Weldon Ken tucky M J 1928 xxv1 559

Headaches of ocular origin L Post J Missouri State

M Ass 1928 XXV 503
Diseases of the eye II Gregord I Lancet 1928 XIVIII Some of the common eye diseases and internal secretions

D D SANDERSON Nebraska State M J 10 8 vin Some recent changes in the incidence of onbthalmic di eases C H WALKER I roc Roy Soc Med Lond

1028 x 11 10 Ophthalmic herpes AUDEBERT and FARRS Bull Soc

d obst et de gynéc de Par 1928 xvii 7,6 Glaucoma G S DERBY New England I Med 1928 CXCIX 864 A case of brawny tenonitis R R JAMES Brit J

Ophth 1928 xii 524 [193] Case of neuronbromatosis of the right orbit M I HINE and R B H WYATT But I Ophth 1028 M

Indications and contra indications for enucleation and evi ceration of the eye J Sellas Rev med de Barce lona 1928 1 99

1028 1 548

A foreign body in the lathrymal sac T H Ropts J

Hastic dacryorhmostomy J J Corbett Am J Ophth 1928 vi 774 [193] An eyelid everter and retractor C Berens Am J

Ophth 1928 x1 986
A sample modification of the Desmarres 1 I elevator for u e with the bridle suture C King Am J Ophth 1928

n 896
Plastic surgery of the eyelids J RATCLIFFE Brit
M J 1928 n 9,

The we of the labral mucosa in the treatment of trichi asia of the lower lids W B DE MATTON Bol Soc de med e cirurg de 5 Paulo, 19 3 tr 143

Some signs of trachoma M DUSELDORP Bol inst de clin quir 1928 iv 362 Concomitant convergent strabismus M P Morro

Ohio State M. J. 1928 xxiv 866. Is the functi nal strabismus of children a toric disease due to pathogenic mi ro-organisms? R. Arguaraz Semana méd. 1923 xxxv 889.

The light sense in miner's nystagmus R J Coulter Brit M J 1928 11, 929 Argyro is of the tarsal conjunctiva in an infant D T

Vill. It Am J Ophth 1928 xi, 782 [193]
Tolerance to a foreign body at the bottom of the conjunctiva R Gir and B Congris Rev de especialidades,

Asoc med argent 1928 in 294
Orbital cellulatis following a powder burn of the conjunctiva a case report. J. T. Stierra Tane. Virginia M. Month.

Scriula and phlyctenular ophthalmia scrolular tuber culous phlyctenular ophthalmis of the cornes and the conjunctiva A B Markin Presse med Par 1918

Two cases of conjunctival tuberculosis B Courtis Rev de e peculidades Asoc med argent 1928 in 296 The treatment of recurrent pterygium M Wiener

Am J Ophth 1928 to 876

Plasmocytomats of the conjunctive and comes M
DUSSELDORF and J GONZÁLEZ LELONG B i inst de clin
quir 1928 by 353

quir 1928 W 353 Keratoconus or coni al cornes S B Moov J Ophth Otol & Laryngol 1928 xxxii 349 Corneal ulcer se ere types J C Douglas Med J

Australia 1918 H 619

Spreadun, ulcer of the cornea D M LAZLITAN J Med Sol N Jersey 1928 xxv 699 Free cyst in the anterior chamber C \ CLAPP Am

J Ophth 1928 u 862 Quantitative pupillary light reflex L Leuteren Am J Ophth 1928 zi, 397

The nutrition of the lens and vitreous II Smith Indian M Gaz 1928 km 619
Subligation of the lens and p resistent posters reascular sheeth of the lens in an infant aged two months. A C

sheath of the lens in an infant aged two months. A C.
Hillo on Proc Roy Soc Med Lond 1918 x ii 4.
Biomicroscopy of lenticular opacities. L. W. Mor Man.
Am. J. Ophth. 1928 xi 38 Supp.

Am J Ophth 1928 xl 3 s Supp Spontaneous resorption of juvenile cataract H FERRER Am J Ophth 1928 xl 856

An optical illusion due to chromatic aberration F H

LERIOGEF Am J Ophth 1938 xt 898

Asteroid hyalitis J F Spring Med J Australia 193

Angiopathia retine traumati a (Purt her) with some remarks on pigment migration C II Cuot But J

Ophth 1938 xii 570
Surgical technique for the removal of bretinal cyst cercus R Sixva Am J Ophth 1928 vi 867

Timbolism of a branch of the central artury of the retina after an injection of metarsenobenzol V to Li T Bravell of med 1928 you 1600

Turther de elopment of the trans spheno I approach to the optic foramen. E. C. Sewall. Am Oil Rhand & Larying I 1978 arven \$39. The disassociated forca refer. J. Lijd Paal's Rev d especial/dades Asoc med argent 1928 u. 253

Ear

Fibroma of the lobule of both ears following a trauma time. L ROSENBERG Semara méd 1028, avet 511 Some observations on collaryng by at the Venna clin cs. S. E. Barnett J. Michi an State M. Soc 1928 vvvii 707.

Injuries of the ear arising from fra tures of the kill E D D DAYS Bitt M J 1028 u 741 [19] The diagnosis of intracran at les was of general interest to the profession referable to disea es of the ear A W FARIER MED J Australia 1928 u 190 [194]

Advances in the field of allergy as related to otolarya gology during the years 1927 and 1923 W W Durk Arch Otolaryagol 1923 viii 573 The influenzal ear W S Saurez Pro Roy See

Med Lond 1928 xu, 1923 [195] Ultraviolet rays in the treatment of ear noise and throat conditions C R Drooms J Med Soc N Jeres

1928 XXV 693
Schsefers who the in the study of the upper tonal limit.
P L ERRECART Rev de espe inlidades, 1500 mol

argent 1918 in 350
Tinn tus aurium D W Datar] im, 1 4 1 9
zci 1508

Tinnitus aurium some considerations of 13 causes with special reference to analogies T J WILLIAM A Ottol Rhinol. & Laryngol 1928 Cax 9 91 (193). The nature of progressive dealers a dy acral e

disease F STOKER J Laryngol & Otol 1918 1ls
645
Otosclerosis RAICK Arch med belges 1928 Exts 51

The pithology of otosclerosi O MAYER From Fo Soc Med Lond 1928 xxi 1837 A working hypothesi for research in otos f costs. Yates Prom Roy Soc Med Lond 1918 xxi 190 [193]

The trasons for and results of a new operatum for dei
ness J N WATE Latynroscope 1913 xxxxiii 713
Menic e s d case report of a case L L Curnetu

Laryngostope 928 xxxviii 26
Otitis media—i nization or electromedi ation in the treatment of chronic purulent cases. A G 1 ox7 J fel

Ass Georgia 1918 x 11, 5 9
Some intracranial complications of otitis media G CD

Mc ARTHUR Mel J ha trails 918 u 58 Car moma of the maldle ear R Curistis Rev milde la Sunse Rom 19 8 dv 1 752

The production of ot us m dia and I by inthitis in rabbits L. A Livell and H. H. Burniau. Ann. 0 1 1951

Rhinol & Lacyn of 1918 vervu 82

The influ n e of fluorine n the bony l byrinth of the white mouse (m s musculus albinus) preliminary report white mouse (m s musculus albinus)

A Lewx Arh OtoLaryn 1 1978 vu 315
Labyrantutts a complication of mel ile-ear suppuration
a clinical and pathologi at 1104 A L Tex ex and J S
telescie. I La vincol & Otol 1918 xlin, 509
[196]

Two cases of serous lisbyrinthius R Olirea Rev etoneuro-oftain 1 y de rug neurol 1918 w 150 Nystamus due t pn umatic 1 a tions and the electrical

t tof Babinski R Out a Pey to-neuro-oftalmol y de cirig neurol 928 1 355

020

Vasomotor affections of the internal ear G PORTMANN [196] Proc Roy Soc Med Lond 1928 vx1 1917 The mechanism of pain transmission in certain types of otalgia R A FENTON and O LARSELL Ann Otol Rhinol & Larvingol 1928 xxxvii 739 [196] Roent enouraphic examination of the mastoid apophy

sis A M MARQUE and S L ARAUZ Rev de especiali dades Asoc méd argent 1928 m 43S Mastordins in children L S Moreno Semana m d

1023 XXXV 768

The histopathology of mastoiditis J P STEWART J Laryn ol & Otol 10 8 xlu 680 Some considerations upon the treatment of masterditis in nursin children J DUERTO Med Ibera 19 9 vii

Nose and Sinuses

The asthetic reduction of the nose after fracture a new retentive apparatus H Proby Arch internat de

laryn ol 1925 xxxiv 866
Surgi al correction of the crooked nose S Salinger

Ill nois M J 19 8 liv 368

Health examination of the ear nose and throat W B MCWHORTER J South Carolina M Ass 1928 vaiv

Notes on respiratory insufficiency G WORMS Arch internat de laryngol 19 8 xxxiv 641 Report of some interestin nose cases R I VREELAND

Ophth Otol & Laryngol 1928 exxii 367 Headaches of nasal origin A W PROETZ J Missouri

State M Ass 1928 xxv 505 Mi raine controlled through the na al ganglion L K GUNDRUM Arch Otolaryngol 1928 viii 564

Deodorization in patients with ozena H LAVRAND Arch internat de laryngol 1928 xxxiv 858 A new operative treatment of ozena A FLORES Arch

internat de laryngol 1928 xxxiv 856 Pencarotid sympathectomy in ozena BERTEIN Arch

internat de laryngol 10 8 xxxiv 861 Tumors of the nose and throat G B New and W Kirch Arch Otolaryngol 19 8 vin 600

case of thinospondium kinealyi J N Duccan Brit J Ophth 10 8 m 526 Fluoroscopic examination of the paranasal sinuses R A

POWERS California & West Med 19 8 xxix 338 The importance of paranasal sinus disease in general diagnosis G M STREET New Orleans M & S J 19 8 lixu 331

Sinusitis in children S L Ruskin Am J Dis Child 1928 XXXVI 1020

Chronic nasal sinusitis with mental symptoms J ADAMS But M J 19 S n 794

Nasal accessory sinus infections in relation to diseases of the eye ear nose and throat J A STUCKY Lentucky J 1928 XXVI, 556

The management of frontal sinus infection O A LOTHROP New England J Med 1928 excit 1078

Brain abscess in the frontal lobe results g from acute frontal sinusitis and osteomyel tis of orbital plate T H

BRANDT Laryngos ope 1928 XXXviii 712 Ethmoiditis in infants and in young children with ac companying eye and orbital complications C F Theisev

Arch Otolaryngol 1928 vii 356 [196] The diagnosis and treatment of chronic maxillary sinus infection extension of the technique to include control of bemorrhage by hation of the terminal branches of the internal maxillary a tery and resection of the middle meatal wall giving operative approach to the ethmoid and sphenoid sinuses 1. C Sewall Arch Otolaryngol 1928 VIII, 405

The advantage of the external route in the operative treatment of chronic maxillary sinusitis diagnosed by the Yray J B FAREIOR South M J 1928 XV1 9 6

Mouth

A discussion on the treatment of harelip V VEAU Proc Roy See Med Lond 1028 XXI 1868

A further study of cleft palate A M FORBES Surg Gamer & Olist to 8 xlvn 207

The desirability of establishin, a rationalized standard for the presention of dental disease in children G North CROFT Proc Roy Soc Med Lond 1028 XVII 71

Congressitis III Laboratory methods for study R A KEILTY J Lab & Clin Med 1928 xiv 165 The radiographs appearance of chronic general perio

dontitis D A IMRIE Proc Poy Soc Med Lond 10 9

A care of dentigerous cyst S C D GUPT's Antiseptic 10 S txv 613

Purulent stomatitis and epilepti mental confusion N 1 0JAS and J C Belbry Rev de especialidades Asoc med ar, ent 10 S in 214 Semana méd 1928 xxxv 4 7

Progenic glossitis and epitlotitis P Tesonic Rev de especialidades Asoc méd argent 1928 in 372

I eucoplakia buccalis I I Eichenlaub South M I 1028 351 035

Cancer in and about the mouth V P BLAIR I B BROWN and N A WOMACE Ann Surg to S IVXXVIII

Cancer of the lower lip suggestions as to operative technique in plastic repair F P PAIRCHILD Arch Surg 1928 xvii 630

Cancer of the tongue and floor of the mouth demon stration of a case T W O BRIEN New England I Med 19 8 excux 985

The treatment of mali nant neoplasms in the mouth I D Mongan Am I Roeptgenol 10 8 77 452 Four years after radical operation for carcinoma of the floor of the mouth C Eggers Ann Surg 10 8 Ixxxviii

Pharsnx

Tonsillar hypertrophy and infection as a factor in ill health D laterson and G W Bray Lancet 1028 CC V 1074

Agranulocytic angina W C HULPER and D O CON NOR Laryngo cope 1928 xxxviii 670 Two cases of pharyngeal sporotrichosis in Arequipa

Peru L ESCONIL Bil inst de clif quir 1928 IV 520 A mixed tumor of the palate P L ERRECART and L Samengo Pev de e pecialidades Asoc méd argent 98 111 369

Surgical diathermy and peoformations of the post pharyngeal space L Samengo Rev de especialidad s Asoc med argent 1928 m 30

Dysphagia due to pharyng al paralysis W M Moilli SON P or Roy Soc Med Lond 19 8 XVI 1777 [198]

Neck

Experiments with regard to the physiology of the thy roid A WINKELBALER Beitr z II n Chir 1928 cxlii

[198] The study of basal metaboli m in the Province of Salta P Mazzocco Bol inst de clin quir 10 8 1v 04 The alue of the adre alin test and basal metabolism

n the diagnosis of thyroid syndromes M R Castev and M SCHTEINGART Rev Soc de med interna y Soc de tisiol 1928 av 367

Acute thyroidits a study of sixty seven cases F C Burnias Surg Gynec & Obst 1928 xlvu 478 [198] Hypothyroidism L M WARRILLD Ann Int. Med 1928 11 446

Hypi thyrodism of the ordematous type A G Silva I MPA and J REYES Rev med de Chile 1928 In 861 A contribution on myxodema myxodematous cardiac insuffici ney A Massoos Aa Fa de med Univ de

Montevileo 1928 ziu 339

Unusual forms of hypothyroids m A S BILLIGARTEN Med Cln N Am 1928 xu 503

A statistical study on the distribution of goiter in Finland and its relation to the todine content in the water E ADLFRCEFUTZ Acts med Scand 1918 lain i Continued administration of indide and other salts com

parative effects on the weight and growth of the body

I J HANZIE, L. P. TALBOY and E. E. GISSOV. Arch.
Int. Med. 10.29, klu. 5, 0.
Endemic gotter in rabbits. I. Incidence and character.

istes A M Cressey T & Clawsov and B Webster Ball John Hopkins Hosp Balt 1928 alm 267 Endemic gone to rabbits II Heat production in gottous and non pottous animals B Webster T & Clawsov and A M Cressey Bull Johns Hopkins Hop Balt.

19 S xins 27S
En lemic goster in rabbits III The effect of the admin istration of sodine B Webster and A M Ches by Bull

Stranged to the Bolt 1928 slut 291
Suggical pathology of gotter L Edge van and P W

SERVER Am J Surg 1029 v 451
The adrenalin to t for thyro oxicos: I Porens
Lancet 1028 ccxy 070

Operations for toxic gotter Santy Lyon chir 1928 237 372 Pronounced exophtbalmos in a case of adenomatous

gotter without hyperplassa D ATENSON H LISSER and H C Sherkhoson I adoctuology 1928 zu 680
Lyophthalm 5 as a sign in adenoma of the thyroid R

HICKELL Med I Australia 1928 II 653

Evophthalmic and adenomatous gotter W D Little
I Ind and State W Ass 19 8 xx1 477

Inchne in the treatment of Basedow's disease M Lange Bull et mém d hop de Par 1928 xhv 1255 The peoperative treatment of Gra es disease by a combination of 1 kdized fatty acid and vitamins A and D G L. ADMINOV and A T CAMEROV Canadian M Ass 1 1928 ut 470 [199] The parathyroid glands their relationship to the third with special reference to hyperthyroidism F P McCti LAGIN Arch. Int Med 1928 sh 146

Radiography of normal larynx P M Hickey Radiol ogy 1013 xt, 409

Bacillary laryngitts and heliotherapy A Taviasi

Arch internat de laryngol. 1928 every 998

Tuberculous prelaryngitis A Pasquier. Arch internat de laryngol. 1928 xxxiv 989

The influence of the Mediterranean climate upon larysgeal tuberculous and a tuberculous larynx L. Bix Arth.

internat de laryngol 1918 xxx 907

Laryn,cel tuberculosis a study of 500 patients treated at the Maryland State Sanatorium from 1913 to 1918

E A LOOPER and L V SCHNEIDER J Am VI 488 19 3,

Anatomical and pathological contributions upon the study of laryngeal leishmaniosis S Mazza and Y Ber AASCOM Bol inst the clin quir 1938 is 301

Mycosis of the latynx cau ed h; a new type of lunus S Mazzy and S Paroni Bol inst de clin quir 1913 lv

530
Laryugeal and pharyn eal paralysis in tabes E
FREYSTYDE Rev olo-neuro-oltalmo) y de cinj neuri
1013 in 408

A new rase of internal laryngocele J Duen o and F Ravenga Clin y lab 1928 xiv 123

Anguoma of the larynx A R Zasibaini Rev de c pe ial dades Asoc med argent 1928 in 366
A case of intrinsic cancer of the larynx with metastacis

in the nose and the lachrymal passares. If York, Arch internat de laryngol 1928 xxiv 1917. The technique of intubation of the laryny for radian

therapy F Lavat and P Picaup Arch internst de laryngol 102% xxxiv 1003 Intrinsic cancer of the larynx operated on by laryn, fissure immediate and ultimate results Six Sr C Thou

son Arch Otolaryngol 1923 via 377

The importance of early tracheotomy W. H. Priotekt

burg Gynec & Obst 1928 xlvu 26
Epiglotectomy with d athermy new methods and technique 1. Same co Semana méd 1928 xxxv 439
I ev de especialidades Asoc míd argent 19 8 u., 329

SURGLEY OF THE NERVOUS SYSTEM

Med Ihera 1928 un 240 Hydrocephalin a study in phylogeny and pathology Sn J Brandscrun Lan et 1928 cerv 657 [230] Communicating hydrocephalus so-called idopathihydro ghalus J H Grones Am J Dis Child 1928 [230]

XXXVI 650 (A30)

Case of concentral cerebral aneurism E L Galary
Cays 1 Hosp Rep Lond 1923 Lixivia 49)
Spontaneous cerebral and menus cal aneuroriba e in
young adults L H Sion and C L Browell Himos
M I 1928 Bir 350

A case of subdural humorrhage E M B Wast Guya Hosp Rep Lond 1928 Isrviii, 474 A ase of subarachnoid humorrha e L M B Wast

A ase of subarachnoid hemorrha e E M B Water Guya Hoap Rep Lond 1978 Ixxvin, 477 The spinal day or thrust the initial symptom of certain subara hould hemorrha es An essay on spinal

meningeal hamorrhages P Micron Presse med lar 1938 xxxvi 904
The diamosis and localization of intratransal lesses considered as a escarch field Presentation of cases M F

forms Laryn os ope 928 xxxvm, 693 Ce ebral neoplasms J M Can Rev méd d Rosano

1928 XVIII 403
Tumn of the frontal lobe with parkinsonian syndrome
I P Monasca Minnesota Med 19 8 if 734
A retrol att ular tumor with a lenticular syndrome M
AURRAIDS M J Series and G O Goreaso Re d

e pecualidades Asoc med argent 1918 m 67 On the removal of cerebral tum) s Sin P Suggest Brit J Surg 1928 xv1 308 The inclination of the quadrilateral plate in the normal and pathological sella turcica. G. Lascim. Radiol. med. 1925 xv. 85. Recent progess in the investigation of the posterior lobe of the pituitary gland. E. I. Buoder, and O. Kamer.

Endocrinology 1928 xii 67t
Anta onism of growth and sex hormes of the anterior hypophysis H M LVALS and M E Simpson J Am M Ass 1928 xci 1537
Roenigen ray therapy of the hypophysis in a patient

with acromegaly its effect on dextrose tolerance P E
ALLEY and H Lisser Arch Int Vied 1928 vlu 703
Some of the acute infections of the brain A A BARRON

South M & S 1929 xc 750

Anatomicosurgical considerations upon cerebral abscess M Bizado and E I RANGE. Bol inst de clín quir 1928 iv 5

Anatomicosurgical considerations based on Six cases of abserss of the cerebrum M Barado and E Franke Arch argent de neurol 1918 ii 171 [202] Rhinogenic frontal lobe abserss report of two cases

F G SPROWL Ann Otol Phinol & Laryng 1 1028 111111, 022 [202]
Meningitis associated with mumps two personal observations W Del Set. Rey Soc de med interna y Soc

de tissol 1928 iv 311
Fibrinopurulent meningitis from an osteophlegmon of deutal origin E Rossi Rev med Lat \m 1928 iii

2100
Trauma and tuberculous meningitis M D Arrico

Riforma med 1928 xliv 1 06

Therealfous meningitis in an adolescent patient C E

Lucie Rev med de Chile 1928 181 758 Rev oto neuro
oftalmol y de cring neurol 1923 in 399

Some atypical findings in the cerebrospinal fluid in
tuberrulus meningitis J Mouriz Med Ibera 19 3

Preumococcus meningiti A CARBONELL and E L

Cook. Mil Surgeon 1928 km 718
The frequency and severity of pneumococcic meningitis

in Jujuy V BERNASCONI and P PEROVIC Bol inst de clin quir 1928 iv 376 Streptococcus meningiti H E Smiley Rhode Island

M J 1918 x1 179
The treatment of meninettis Rodriguez Arias Arch
de med cirug y especial 1928 17 269

\text{\text{memorgioma of the sensory cortex removal I MALLEN Proc Roy Soc Med Lond 1928 xul 6
Dia ram of the atternal circulation of basal ganglia
H F AITKEN \text{\text{Vew En land J Med 1928 cyclx 1984}}

H F ATTEN New En land J Med 1928 CKIN 1084 Considerations on the hypothalamus and the endocrine system Jakob Bol Soc de med e cirurg de S Paulo 1928 xi 169

Headache from the neurological aspect B L ELLIOTT

Missouri State M Ass. 1928 xxv 509

Report of a case of multiple neurities of the cranial nerves

C W Mackenzie J Ophth Otol & Laryng 1 1928

Avui, 357
Operation for the radical cure of trigermial neuralgia C H 1 saxira: Ann Surg 1938 lexxvii 534 [203] Modern surgical treatment of trigerminal neuralgia B

SPOOKEY SUSPICIAL TREATMENT OF THE STANDARD SPOOKEY VEW England J Med 1938 CACIA Sõd Considerations up n the facial nerve the syndrome of Considerations up n the facial nerve the syndrome of Ramsay Hunt J C MOYTAN IRO and J L HANÓN Semana m/d 1938 XXXV 257

Acase ol Iacial parallysis due to herpes J MATUSENICII Res de especialidad a Noo méd argent 1928 in 352 B lateral tumors of the acoustic nerve from a su gical Newpoint II OLIVERONA Rassegna internaz di clin e terap 1988 ir 650

Action and control of the peripheral organs of speech F L KENOV J hm M Ass 1928 xc 1341 aphysiological theory of reading disability and stuttering in children S T Orton New England J Med 1928 cxcs 1946

Spinal Cord and Its Coverings

I ate injuries of the spinal cord—compression myelitis with severe scolioses W JAROSCHY Beitr z klin Chr 1928 Cklin 507 [203] Compression of the medulla by a tumor E VANPEL and

P W I ONGO Bol Soc de med e cirurg de S Paulo 19 % xi 104

The diagnosis and surgical management of spinal cord tumors R C DOLGHTY J South Carolina M Ass

A contribution on the surgery of spinal cord tumors technique and results in twenty personal cases D PETIT DUTAILLIS J de chr 1938 XXXII 199 [203]

Laminectomy for symptoms of spinal tumor with new ative findings. W. H. Goldon, J. Mi. higan. State. M. Soc. 1938. xxvii. 719.

An intramedullary lipoma of the spinal cord complete operative removal. E. Sagus and F. T. Fingure. Arch.

operative removal E Saciis and F F Fincher Arch Surg 1928 xvii 829 Bacillus coli meningitis in a newborn infant F Baain

Brit M J 1928 II 895
Anterior root sensibility Pieder Zentralbl f Chir
1928 lv 814
[205]
Accidents due to intelerance of lumber numbers. P.

Accidents due to intolerance of lumbar puncture R TARGOWLA and A LAMACHE Presse med far 1928 XXXVI 1111

Peripheral Nerves

SCHYEK Monatsschr f Unfallheilk u Versi herung med 1928 xxxv 22 [205

Pressure on the brachial pletus W B MARBURY
Virginia M Month 1948 by 523
Acute brachial neuriti with pronounced sympathetic

symptoms followed by transitory paralysis of the left external rectus Livosyte and R Bonnaha Bull et mém Soc méd d hôp de Par 1928 xilv 1274 Considerations upon a case of symmetrical paralysis of the forearm due to lead poisoning B B Srort and R B Boissattiese Cemana méd 1928 xxv 765 Rev de

especiali lades Asoc méd argent 1928 in 520. A case of late ulnar paralysis due to multiple osteogenic erostosis a new technique for transposition of the ulnar nerve. I Privi and M. M. Brea. Bol in t. de clin quir

nerve I PRINI and M. M. BREA. Bul in t declin quir 1928 tv 60. A large fibroma of the ulnar nerve. NANDROT and

GRANDCLAUDE: Ann danat path 1918 v 751
Evulsion of the radial nerve from the audia reposition
and suture of the nerve recovery Block and Luvray

Bull et mem Soc nat de chir 1928 liv 1085 Musculo piral paralysis after supracondy lar fracture of the humerus H IISCHER Ann Surg 19 8 Izxvun 909 Herpes 20ster (intercostal) and intercostal neuralgia re

lieved by sphenopalatine gan lion treatment 5 I RUSEIN Laryngoscope 1928 XXXVIII 7 9

Sympathetic Nerves

A contribution on the embryological origin of the sym pathetic system — SALA and GINABREDA — Rev méd de Barcelona 1928 v 222

The effect of tartrate of ergotamine (s.ynergen) upon the sympathetic system Castillo De Lucas Arch de med cirug y especial 1018 311 048 The existence of paradoxical reacts as in examinate as of the arterial sympatheti nerves and their practical im

portate L LANGERON Presse mel lat 10 3 7731) Clinical study s of adrenal ctomy and sympathectomy G W CRILE Ann Surg 10 S IXXXVIII 470

(2061 Cervical ramisection for a painful vasomotor syndrome of the upper limb Bowtor Lyon thir 10 9 xxx 5/2 Resection of the po terror bron had nerve G LIERT

Ann ital di chir 1928 vii 925 A contribution to the anatom al study of the pelvic sympathetic system sur ical deductions C LAUX Presse med Par 1929 vetti 210

R secti n of the superior hyroga true plexus the socalled presacral nerve D TERRY Ar h fron o belies de chir 1027 TXX 605 The superior hypo astric plexus th indications and

value of its resect on in pelvic neu algia J B Luque I resse mid I ar 1928 vexvi 1 6 An anatomohistolo scal study of th effects of removal

of the perineurial sympathetic P Laura Ann ital di chir 1028 vii 75 12061 Persarterial sympathes tomy an experimental study I

CARMONA Polichin Rome to 9 xxxv sez thir ato The treatment of perf ratin plantar ulcer by persartenal sympathectomy A CONTARGUEIS Lyon hir 10 8

XX1 <18 Surgical experiences with the human vis eral nervous system P Gino Presse mid lar 19 9 txxv1 1173

Roentgen findings in neuroblistoms type t of tw cases C-B HEVLE Am I Roent earl 1923 XX 414 Miscellaneous

The origin of the cerebrospinal fluid Riser and Sorrt. Pres e med Par 1928 xxxvl, 1121

Indized rape see I oil (campoid I) for cerebrosomal visualization C II FRAZIER and M A GLASER I Am.

11 1ss 1928 xc1 1600 An attempted antirabic vaccination of rabbits by the menin_eal route V Sancinfs-Bayaner Les med de Barrelona, 1928 v 247
Left safed hemiple ta and hemi nuesth six di to car

bon monoxide infoxication \ I Caualer A Durigo and C LLAMBIAS Res Soc de med interna s Soc de tisiol 1923 iv 347 Rev oto-neuro oftalmol v de circi neurol 1929 pr 33a

Observati as on the treatment of tabeta, a prosymbolic G A MOLEEN Colorado Med 1928 EXY 352 Gastric crises of tabes intraparavertebral i retions R

FINOCHIETTO and C LEAUBINS Arch argent de enferm d anar digest 1928 nr 817 The pathonenesis and the surg: al treatment of gastra crisis of tabes neuro ramisectomy L Va. Bocarat

and J VERBRUGGE Surg , Gynec & Obst 1928 alva, 1206 541 The surgical stamm ance of the abdominal reflexes, W

ALFIN Ar h Surg 1928 tvn 854. The histocenesis and classification of tumors of the nervous system J LLAMBIAS Rev oto-neuro-oftalmily

d cirug neurcl 1928 ii 352 397

SURGERY OF THE CHEST

(2081

Chest Wall and Breast

Mali nant tumors of the wall of the chest C D Lock

wood Arch Sur, 1928 xvu 4 9 Considerations regarding the physic path logy forth mammary gland G DUARTE Per mel d Barcelona 1018 V 100

A case of polymastia W V Fusta Semana m d 19 8 XXX 709 Considerations upon a clini al ase il unilateral gyne oma tia N Royano and R A TYHERABIDE Rev Soc

de med interna y Soc de tist ! 928 1 8

Prophylaxis and mastitis F ANDERS Zentralbl i

Gynack 1928 11 1965 Chronic mastitis cy to-aden ma of aden ma of

the breast G L CHEATLE Ar h Surg 1) Adenoma of the breast of unusual d velopm at 1 B

DE CORES Bol inst de l'in quir 9 8 1 800 The bl-eding breast e pecially in the male HANDARD Zentralbl f Chir 1928 I 10 3 [208]. The treatment of carcinoma f the breast 1 II [208]

Roppo Bol Soc de obst y 5 ne de Bueno Air 5 19 8 The treatment of carcinoma of the brea t Buchmonz [209]

Zentra'bl f Chir 1928 lv 1040 Results of delay in the treatment I breast an er W I Perets Ann Sur, 19 3 luxxim Ka What may we expect from the treatm at of an er of the breast? U PORTLAN Texas State

XXIV 467 Sarcoma of the b east five years afte operation (EGGERS Ann Surg 1928 Irxxviii 921

Trachea Lunus and Pleura

Upper respirat ry infect ons with predominating gastrointestinal ymptoms I R Asire South W & S 1919

The ciliary mo ement of the tra hea studied in 11110 12091 I Hitt Lan et 1929 c'tv 80 Acute laryn otracheobronchitis H L Barn J Am (210) M Ass 1928 v 1 100

A foreign body lod ed in the bronchus A R Zampaint Rev de esperiali lades Ason med argent 10 8 in, 3.3 An unu ual f reign body in the lung W Strauer

B at M J 19 8 11 844 Sil nt tracheotomy its significance A. J. M. \atom I roc key Soc Med Lond oz8 xvi r So [218

Br nch scopy pa t present and futu e C Jackson lew England J Med 1928 craix, 759 [216 [210] The technique of bronch scopic preumon , raphy ath by odol D H Barron Surg Gynec & that 1918

The alue of the n w methods of diagnos s of plutopulmonary affe ti n G A ALFARO Sema a med

9 8 XXXV 3 7
Atele ta is of the lung—report of two cases E G Graz-

Vir min M Month 19 8 lv 531 5p ntaneous n n tuber alous pneumoth rax m talkn'y and hildhood \ te sew of to literature with three

additional cales E & STOLOFF Am J M Sc 1918, chus 7 657 Ma si e llapse i the lun, and résumé of eight cases

C. L. Gisson Am. J. Sura, 1928 v 509
Postoperative ma ve collapse of the 1 mg. C. E. Fara

Ann Surg 1928 beenin 9 9

An unusual case of patholo scal pneumothorax A MIRANDA Folha med 1928 IT 317

Spontaneous perforations in the course of pulmonary pneumothorax J P OLYEDO and J A PASCUAL Med Ibera 1028 XII 183

Extreme emphysema I A C Macewen Brit M I The sur ical treatment of pulmonary emphysema. P

GERARD-MARCHANT Arch méd-chir de l'appar respirat

Sprochatosis of the respiratory apparatus S PAIMONDI and E J CANAL Frijoo Bol inst de clin quir 1928 14

384 Two ca es of Castellam s bronchial spirochæto is I Norcy B I mst de clin quir 1928 to 304 Bronchopulmonary fusospirochatosis in Chile I P Catz and M Del P Sanchez I ev m d de Chile 19 S

Notes up in blastomy cosi in the re puratory passages S Mazza and F New Bol met de clin quit 1928 IV

A case of pulmonary blastomycosis due to a non pecifi Momla A F BIANCHI and F NINO Bol inst de cla quir 10 % 1v 531

Staphylococcic tracheobronchitis following tonsillitis JS ULLMAN New Orleans M &S J 1928 leet 311 Bacillus suspestifer (h & cholera) infection of the lun J G M Billows Med Clin N Am 19 8 xu fgr

Type I pneumona following submersion and with emplema J G M Bullowa Med Clin N Am 19 8

Medicoclinical collaboration their treatment of pulmonary tuberculosis J Ducting Arch franco belies de thir TTY1 81

Collapse of the lung occurring in pulmonary tuber culosis J CPROLLL Am J Poentgenol 1928 xx 419

The selection of cases of pulmonary tube cullsis for sur ical intervention F W ARCHIBALD New Fooland J Med 1928 excit 1025 Th racic surgery appli d in the treatm nt of a patient

with tuler ulssis of rapid evolution. J Girone and A Course No. Bull et mem Soc med d hop de Par 1928 Thy 1241

Therapeuts pneum thorax J Rosenblatt Rhode Pr 12 8 01 [1/1 fm!] Therapeutic pneumothorax and complimentary surgi al

interventi ns 1 TAR STAND I forma mel 138 Artificial pneumothorax in the treatment and prophylaxis

of pulm nary tubercul si (Fire Ga Folha med

to 8 ix 20'
The re pective indications for artificial pneumothora phren cectomy and th ra oplasty in pulmonary tuber cul sis and in pu ul nt tuber ul us pleuri) L VALCHER and R LATERIAN Ar h franco belges d chir 9 %

Spontane us pneum th rax superunpo ed a bilateral articular pneumoth rax > 1 Wilson Brit M J 1925 11 50

Su!l nd aths m h ur aft e insuffation in a pati nt who had telerated p rf thy a simultaneo s bilat al pneumoth fax Valcties Lauruann and United Bull etm m Soc med d h p de Par 1928 the 112

The op ration f phr ni e tomy 1 C Missó I ev med de Barcelona to S . 9

The treatment of pulmonary tube cul si by double phreni o-exeresis O I CURTI Rev Soc de med interna Sec de ti i 1 1928 1v 101

The meotomy and thora oplasty 1 C CALLISTER. California & West Med 19 8 xxix 323

Ceneral conditions for extrapleural thoracoplasty and the method of election A PERERA Lev med d Barcelona 10 8 v 117

Aultary pleun 1 5 m collapse therapy for tuberculosis 1V 277 Semana med 1929 TYTY 622

The surgeon s point of view of the after effects of surgical procedures in pulmonary tuberculosis A T EDWARDS Brit M I 1925 11 602

The physician's point of view of the after effects of surg cal proce lures in pulmonary tuberculosis T C CHANDLER Brit M J 1928 n 60 [211]

Bron h pulmonary lithiasis E Courinho brasil de med 19 9 tviii 69 Lung abscess L E HANDELMAN Illinois M J 1028

liv 38 The eti loby of pulmonary ab cess M JOANNIDES

Surg Gyner & Obst 1929 vlvv 449 I ostoperative abscesses of the lung E C CUTLER Arch franco bel es de chir 10 8 xxxi 2

The experimental pro luction of postoperative abscess I C CUTLER Edinburgh M J 19 8 of the lun-XXX1 211

Lung absces following tonsillectomy from the stand point of the roentgenologi t W F MANGES Atlantic VI I 928 TYY 900 [212]

Chroni foetid pulmonary supparation a clinical study D OLMER and M R. Porsso Arch franco belges de chir 1928 5552 64

Etiolo, y and early dia nosis of bron hiectasis and lung al scess D T SMITH New En land J Med 1928

abs e and gan rene of the lung their surgical treat ment E LIZAGLINE Arch franco belies de chir 1928

The medical and sur scal treatment of pulmonary ran rene BUENDIA Pro, d la clin Madrid 1928 xvi 557 The dia_nosi of bronchial fistula and empyema I IZAGUTERE Med Ibera 1928 SH 1 0

An interesting case of pulmonary hydatid cyst T Martini and A Dussola, bemana med 1928 xxxv 516 Extrapleural th ra oplasty for non-collapse of an ant ath racilly dated cyst. If R v w. J. College Surg.

Australasia 1028 1 26 Bent, n neonlasms of the bronchus Report of a case of ubrolipoma of the l ft main bronchu removed through the bron hoscopi M C MYERSON Am I M Sc 1028

d 141 7 0 Gene alized lymphanoit c pleuropulmonary carcinosis M GAMBERIA Policia Rome 1928 xxxv sez med 403 Bron he copy in the diagn is of malignant conditions of the lungs I I VINSON II J MORRSCH and B R KIRKLIN J Im M Ass 1928 cc: 1439

In attempt at anatymi al and clinical classification of primary can er and carcinoma of the lun. G I oussy and I Herean Ann danat path 198 v 713

The pain sense of the pari tal pleura A I G Mc LEGILLY Jun et 19 9 ccxv 10 3

Total an i omplete bilateral pneumopleura with an \ Viros Rev Soc de med interna inte valoff ur year

The e eatment of purulent pneumococcic pleurisies in hildren 1 M O onto Rev med de Chife 1928 lvi

In w method fo the evacuation of pleural effusions
B \ Contract to key \soc med arent 1928 xli

I mpyema in infants under two years of a e W I LICHOFF Jr and W C DAVISON Arch Surg 1928

svú 676

[212]

Double empyons with a secondary thigh above a about a foreign body L D TRUESDELL Ann Surg 1023 ROD SUVERN

Heart and Peri ardium

Myocardial disea e and its gastri masquerades REISHAN J Am M Ass 1928 xc1 1521 Spontaneous rupture of the heart C I Suntes and

C Mindlerov Wisconsin W J 1928 ESVIII, 497 Stenosis (coarcta ion) of the aorti isthmus with subcutaneous pulsating afteres on the back F I Weber and I Knor Froe Roy Doe Med I and 1928 xm 7 Lardice anguna F C Arritage I ev med Lat Am 1018 XIII 2015 2210

I runary neoplasms of the heart F B BRADLEY and E 5 MANDELL J Am W is 1928 xc1 1152
A case of possible coronary embol sm F M B 11 EST Guy s Hosp Rep Lond 1928 lanym 478

Esophagus and Mediastinum

Lurious cases of foreign bodies of the assorbs us and resouratory tract Gresez Bull et mem Soc d chirur Liens de l'at 1028 xx 610 Megadolicho-ersophacus M R Castex, H Mollard and R L REPETO Arch argent d enferm d apar digest 1928 III 865

The treatment by in lwelling sounds of osophus al fishile secondary to the ablation of d erticals Gafgorne Bull et mem 50c nat le chir 1918 hv

Syphilis of the ce ophagus A L Ages Lancet 1913

Ulceration of the ersopha us experimental study FRIEDLY'S ALD M FELDANY and W. F. Zivy Art In Med 1928 th 521

A fibro is turn it of the or opharus and the laryngeal re cesses lateral pharyngotomy A P Santes B I hot de med e cirur, de S l'aulo 1028 vi 118 Radio cometry of the mediastinum

35 Dr Angen I olha med 1028 17 200 Tuberculous mediastinopencarditis I R Gorges.

Semana méd 1928 xxxv 832 A con ental venous cyst of the mediastinum Rassis tan Surg 19 8 lexxvui 955

An exter we study of th thymus C I Brook South M 1 1928 xxx, 936

Miscellaneous

Injuries to the chest L R SANTE J Am M Ass 1923 XEI 1503

Errors in the interpretation of radiograms of the cliest T POBLET B it M I 1928 II 500

SURGERY OF THE ABDOMEN

Abdominal Wall and Peritoneum

The transverse cutan our suprapubli incision remarks based upon 1 000 laparot mies M SENECHAL Pr 35

med 1 ar 10 8 xxxvo 1142 A sub-utaneous hydated cyst of the lines alba semulaten an ebigastric hernia. A Lace izr, C Mesa and L F RIVOLTY Re med Lat Am 1028 xm 2180

A fil roma of the abdominal will litter Bull Sec d obst et de gynée de Par 1028 xvn 736 A strangulat dingunal bernis in an infant twenty se en day sold I M Trout Am I Sure 19 9 v 118

Penal, of a hernia with fascial itures C G Burguica. N York State J M 1923 23VIII 1269 The use of ox fascia in the operative treatment of herma

If V. Cave Ann Sure 1028 because 012 Spontaneous pneumoperatoneum]] SPANCENBERG and L. Movier Arch argent de enferm d. ag ar digest

1918 III 8 9 Abdominal adhesions Batvertiere Bull et mem Soc d charurgiens de Par 1928 ve 600

The duality of semivisceral adhesions their trea ment with hipsodol L CERF and \ Patrix I esse wed I ar

1938 XXXVI 1131 An assisted calcareous concretion of the per toneum the site of an abortive peritoritis E Carrecest Reforma med

102 Mby 1143 The pentone m as related to pentonitis 1 C Divin and I L Spares Ann Sarg 929 harves 672 True and fa'se peritoritis in typhoid fe er A Dias

Bol Soc de med e cururg de S Paulo 1928 Et 1 1 A ute diffuse peritonitis secondary to criminal abo tion C V Starez and A. M Bree. Semana med 1928

XXT 346 D sodenal drains, e and duodenal feeding in erts a cases of incontrollable somiting in perstonitis N Rowing and S REV Rev Son de med interna y Soc de tise ! (2t4)

Perstonets IV The production of active immunity a, asnet the fatal outcome of experimental faral perstoach B STEINBERG and H GOLDBLATT Arch Int Med 1924 Append cular m senterolitis H Fentz Beitr z klin cxlu, 564

Multiple cysts of the mesentery E W PETERSON Art J Surg 1929 v 514

Tibrorate of the mesentery with a review of other tumors C I alaka Presserved Pa 1928 xxxvi 1178

Gastro Intestinal Tract

The diagnos a and treatment of nervous dispep is L. D Capa Illinous VI J to 3 liv 304
Abmentary fee y 4 Laurinsicit. Pl: lin Rm

1215) 1928 EXEV SEZ PIAT 1510 La canation and operations upon the digestive passages

A chanter Press ended for 1015 xxxxx 1116
The physiology of the atomach and duodroum J D
Rot ax Hinous M J 1928 by 357
Mator and secretory fun atomach at the stomach II. G
Back J Am M Ass 1038 xx 1314
The effects of surgery of the st mach on its subsequent

The effects of surgery of the st mach on more most r and se r tory functions I Il Garmen J (215)

31 Ass 0 8 xc1 1075 The status of coentgenolo y in gastro-enterology L (216 Cora burg Clin V Am 10 5 VL 1005

ii J The fallacy f X sys in abdominal diagn six PATERSON and F HERNAMAN JOHN ON Brit M J (216)

n 5/5 505

Besoars U Maes Ann Sarg 929 lexev n 63,
Some stomachs I bave met J Hussley Virgina M 12177 Month to28 ly 379 A new op ration for the cure of gastroptosis

HADLEY J College Surg Australass 1928 1 236 Dr erticula of the stomach \ L KALBELEISH Am .

Roentrepol 1028 xx 213

Diverticulum of the stomach B M BERNSTEIN Am J Roentrepol to 8 xx 224 Surgical treatment of gastric elon ations L VANDEPUT Arch franco belges de chir 1927 xxx 640

Cardiospasm H H GREENWOOD Brit M J 1928

Inademacy of the Weber Ramstedt operation in pyloro spasm F MANDL Zentralb! f Chir 19 9 ly 662 [217] Achlorhydria D R BLACK South M J 1929 vxi 920
The effect of injections of hydrochlori acid on the
gastire and duodenal mucosa W J Gallagier Arch

[217] Surg 1028 xvii 611 The depressive influence of the sympathetic nerves on gastric acidity H MOLL and E R FLINT Brit J Surg

1023 XVI 281 12171 Two cases of snake bite and degenerative gastric lesion

LOSADA Arch de med cirug y especial 1928 xvi 64 Phlegmonous gastratis H I INSTERER Ergebn d Chir u Orthop 19 8 vv1, 543

The treatment of hæmatemesis GALLART and MONES Arch de med cirug 3 espe ial 1928 ix 149

Roentgenological observations in tuberculosis of the stomach E l'azzt Radiol med 1028 xv 934 Syphilis of the stomach-report of three cases

MURRAY J South Carolina M Ass. 1928 Triv 54

Ulters of the stomach and the constitutional condition C B UDAONDO Arch argent de enferm d apar di est 1929 III 811

Some phases of peptic ulcer P L SANDERS South M 10 8 XXI 040 Gastric and duodenal ulcers W S WYATT Kentucky

1 1928 XXVI 532 The localization of gastroduodenal ulcers from the symptoms L Sattler 1928 Leidzi, Novak & Co Vitamins in the etiology and cure of gastric and duodenal

ulcers S HARRIS J Am M Ass 1929 xc1 1452 The so-called peptic ulcer of the stomach and duodenum in the do which sometimes follows choledoch plasty k.

Acute perforations of the stomach and duodenum GIBSON J Am M Ass 19 8 XCI 1006 [219] A roent enological sun of perforation of gastric and

duodenal ulcer G Du l'Asquier I ev méd de la Suisse Pom 1928 xivii 78 Gastrojejunocolic fistula C EGGERS Ann Surg 1018 luxvm 927

Permanent castric fistula E N STAHVKE Zentralbl f Chir 19 8 lv 1609 The medical stomach R W Holbrook J Missouri

State VI Ass 19 8 xxv 522 The surgical stomach W F HOLBROOL J Missouri

State M Ass 1928 xxv 524 The surgical treatment of peptic ulcer R C Giles J \at \I Ass 1928 xx 1 8

The surgical treatment of gastric and duodenal ulcer the surgical treatment of goods and 1928 vivil 493
If W Louris Surg Gynec & Obst 1928 vivil 493
[220] The surge al treatment of gastric ul er with special

reference to the massive ulcers G WRIGHT Brit J Surg t928 XV1 253 [220] The removal of the antrum in the treatment of some of the unsatisfa tory results of gastro-enterostomy R Solé

Semana méd 1928 xxxv 442 The large stoma gastrojejunostomy K BLACK N J 1928 II 440
P) lore tomy P E TRUESDALE J Am M Ass [222] 1928

Castric ulcer pylore tomy P lya anastomosis C F
TENEY F W BANCROFT and L G COLE Surg Clin 12221 V vm. 1928 vm, 989 (223)

The technique and results of partial gastrectomy of chronic gastric ulcer J Morley and W M ROBERTS Brit 1 Surg to 8 XVI 230 Benign tumors of the stomach J T Maso and M F

Daves Ann Surg 1028 Inxviii 866 A case of fibromyoma of the stomach M MILLEN

BACHER Zentralbl f Chir 1928 lv 1424 A pedunculated extragastric leiomyoma of the stomach with hæmorrhagic degeneration T McW MILLER Brit | burg 1928 TV1 323

Gastric polyposis A report of two cases with a review of the literature A \ STRAUS J MEYER and \ BLOOM Am J M Sc 1928 clvvvi 681

A new contribution to the study of the clinical forms of prepylone ulcer cancer G HAVEM Presse med Par 1028 XXXVI 1137

Examination of the gastric contents as an aid to the diagnosis of carcinoma of the stomach D M DUNLOP 12241 Edinburgh M I 1028 xxxv 40 I arly cancer of the stomach W C MACCARTY

Cancer Research 1928 XII I 12251 Cancer of the stomach G VILLANDRE Lancet 1028 CCXV OI7

A case of carcinoma of the stomach S HUNGRIA Bol Soc de med e cirurg de S Paulo 1928 vi 193 Car inomatous ulcer of the stomach II HARTMANN

Bol Soc de med e cirurg de S Paulo 1928 xi 191 A case of sarcoma of the stomach H BULLOCK and H SHEARMAN Med J Australia 1928 ii 654

A case of postoperative intestinal paralysis and acute dilatation of the stoma h M REYES Rev med Lat Am 10 8 xm 2240

Achalasia and degeneration of Auerbach's plexus A T RAKE Proc Roy Soc Med Lond 1028 van 1776 A case of intestinal obstruction following a penetrating wound in the abdomen P N Basu and T B Menon Indian M Gaz 19 8 lun 639

Intestinal obstruction W C FOSTER J Am M Ass 1028 YEL 1521

Me ham al intestinal obstruction due to peritoritis of appendiceal origin I De Marchi I oliclin Rome 1018 TXXV ses chir 470

Lyperimental and clinical studies upon the mechanism of death in intestinal obstruction and upon the treatment of different types of obstruction Santy and White Lyon chir 1028 xxv 622 The relation between the variations in the alkali reserve

and the sodium-chloride content of the blood in experi mental intestinal obstruction D Aist and R I 11045 Arch de med cirug y e pe ial 1928 ix 198

Relation of the intestinal flora to clinical findings J B Fitts South M J 1928 xx1 911 Mercuro hrome 220 in intestinal tuberculosis H F

GAMMONS Med J & Rec 1928 CXXVIII 533 Some considerations upon intestinal trichomoniasis

N 5 Lorzaca Bol inst de clin quir 1928 is 295
A curious case of intestinal trichomoniasis LOURETRO Bol inst de clin quir 1928 iv 278

A con ideration of some of the intestinal parasites with a report of three cases of oxyuns incognita L Bass New Orleans M. & S. J. 1918 [xxxi 342]
A new species of entricomastry parasites of the intestine

of the rabbit A MARQUES DA CUARA and J MUNIZ Bol ınst de clin quir 1918 iv 5 5

Leiomyomata of the inte tines J \ Wolfer Surg Gynec & Obst 1928 slvu 643

Ganghoneuromatosis of the alimentary tract H POATE and K INCLES But J Surg 1928 \$11 221 [225]

Cancer of the intestine R WARREN Lancet 1928 CCXV 493 12261 288

Surgery of the intestines R. M. Hinnaick, J. Nat. M. Ass 1928 XX 170

Int assisception W A SELEAV J Med Ass Georgis

1928 XVII, 490 The genesis and treatment of intestinal invagination in the nursing child A Laureur Presse med far 1028

K 111 1210 Intussus eption due to a papilloma in a child of twenty one months 'E J LAMB Am J Dis Child 1928 xxxvi

A case of combined tleus W Serrestveller Deutsche

Ztschr f Chir tg28 tcix 41 Secondary melanomata of the small intestine with

chronic intestinal obstrution and intussusception W Maxyett Med J Australia 1928 11 6 6
An enteric cyst of large size in a boy E G Stesings

Brit I Surg 1028 XV1 333 [226] The relative mechanical strength of enterostomies performed with and without clamps an experimental study R A COTT NO Arch Surg 19 8 avu, 6 8 [226] Multiple operations for duodenal marginal and jejunal

ul ers H E SANTEE Ann Surg 1928 levevil 932 lepunal and gastro epunal ulcers I Etiology and pathology II Symptoms and diagnosis t F II war Jejunal ulcer gastrocolic fi tula following gastroenternstomy II FISCREP Ann Surg 1918 Exxviu 911

Jejunal pepty ulcer a' er gastro-enterostomy with flat thread rese tion LEPLAT Bull et mem So d chirur grens de Par 1928 37 656 kese ...on of the tomach for jejunal ul ers and other

complications C Loger Ann burg 1918 freeval 924

Jejunocolic fistula W E Robertson J Am M Ass (227) A mart Me kel's diverticulum L GRIMATET and L CAPETTE Bull et mêm boc nat de chir 1029 in 1087 Lympho arcoma of the ileum with the report of a tase M O Miller New Orleans M & 5 J 1928 lexu 322 A tumor of the mesocolon thagnosed as ovarian tumor

S CAPPELLANI Clin ostet 1928 ver 578 Consupation its cause and correction A A PAGE

Canadian I Ass J 1929 xxx 562 What causes constitution? W C LLIANEZ New For land J Med 1928 ever 850

Situs inversus megacolon typhoid fe er M Acusa CASAUBON and I C DEROUT Semana mid 1928 XXXV 725

The mans ement of hernie of the large inte tine SANCHIS PERPINA Arch de med cirug y especial 1928 IX 233

A new symptom of invagination of the colon G Merborest Radiol med 1928 av 0 5 Cohtis chronic and non specific R C BLANKESSET

Wisconsin M J 1928 xxviii 455 Acute colutes multiple pe loration in the colon C V

Stagez Arch argent de enferm d apat di est | 928 20 855 Ul erative colitis J A Baktien J Am M Ass 1928

{227} XL1 1176 The allergic factor in mucous colitis II I LAUGHAN

South M 7 1918 XX1 894 Membranous colitis due to rectal govo rhoea. Il. 4

MARSLALL Illimois M J 1928 hv 308
Colon irrigations \ A Bastedo New En and I Med 1918 excix, 865 Natren treatment of simple alce ative colitis CORKILL Med J Mustralia 1928 is 589

A case of ul erative colitis freated with antidysente ic serum H I Maister Guys Hop Rep Lond 19 8 Ixxviii 437

Discussion on diverticulties J S McKenbrick, J M M KERR and A You've Glasgow M J 1929 Cz 197

Chronic ulcerative colitis associated with malignant J A BARGEN At h Surg 1923 xvu 561 [229] The diagnosis of carmoons of the large intestine M Gordsutte Med I & Rec 1928 exxvii 522

Submucous lipoma of the colon report of a ca e McFARLANE Arch Surg 1928 zvu 627 1229 Multiple myomats of the colon report of a case and contribution on the histogenesis R G Kirva Up ala

Lackarel Foeth. 1928 XXXIV 307 Aseptic intestinal anastomo is in resections of the larre bowel J R B RRANCH Surg Gymec & Obst. to 8

xlvn 6 S The appendix as a provisional organ. Heapon Arn

Surg 1928 LXXVIII 953
The blood supply to the appendix II Koster and M WEINTROB Arch Surg 1925 IN 57 Ascaris lumbri oides as a cause for appendiciti. D D

Cox J Missouri State M Ass 1928 xx1, 527
Appendictis in children In analysis of cases from St Mary s Free Hospital for Children and the First Surgi a (Corn It) Division of the New York Hospital C E FARR and L BRAKELEY Surg Clim N Am 1929 V

Acute appendicitis when a received and the possible pr g treatment during the last ten years and the possible pr g treatment during the last ten years and the possible pr g Acute appendicitis with a reference to the advances in Chu N \m 1928 \m 977 Chronic appendicitis a clinical and roentgenologial

study H Esron Presse med Par 1928 xxxvi, 1194 Fibroplastic ar pendicitis H & ZWER Ztschr i Chir 1028 ccix 120

Append citic complications E W PETERSON Am] Surg 1928 v 516 Can revous appendicitis with perforation at the edge of

a grant calculus and amb guous symptoms 1 M Cape war Bull et mem Son nat de thur 1920 ly tol6 Should operation be performed for every appendical

inflammation? 1 Japua Deutsche med, Wchosche 10 9 hv 820 Burnal of the stump after amputation of an acutely pe forated appendix E AUMARER Bull et m m Soc ast

ue chir 193 liv 1004 Discases affe t ng the distal half of the colon A B

MOORE J Am '1 Ass 1928 7 1, 1004 Com Mega igmoid twi e giving rise to volvulu 1300 chir 1918 771 646

Diverticulates of the sigmod with supture into the urmary bladder L L VESEEN J Crol 1928 EX 50% Rese tion of sigmoid for acute sigmoiditis and d er

t ul tis C Eccess Ann Surg 1928 Ixxviii 922 Doubl cancers of the sigmoit flevure of different and toru al types TAVERNIER Lyon chir 1928 274 641. Rese turn of cancers of the s., noid in a clo ed pentoneal space P Bower Lyon chir 1928 xxv 518

A for gn body in the rectum I IRIARTE and C OLIVERA Semana med 928 xxxv 539

I jam jar in the rectum P Hawk Brit 11 1 19

Injury to the rectum due to impalement on a broom stick Cure. Zentralbl f Chir 1025 lv 1487

Dismostir methods in di case of the rectum a dite'en F M FRANKFALDT Med thm \ 1m, 1918 EU, 811 Rectal stri ture with fistula and partial destruction the pe meum and the bi dder wall Sarvi. Bull et mem

Soc nat de chir 1918 ly 198 Abs ess and fistula of the anorectal region C. Cumicis

co Presse méd lar 1928 xxxv1 1235

Removal of the adenomata of the rectum H H GREENBOOD Lancet 1928 CCXV 918 Tuberculosis of a rectal fibroma hysterectomy resection of the rectum P PICARD and R GREGOIRE Bull et

mêm Soc nat de chir 1028 liv 1066 Resection of carcinoma of the descending colon ENDER

LEV Schweiz med Wchnschr 1928 Ivin 160 Operation for carcinoma of the rectum H LRASKE 12321

Beitr z klin Chir 1928 cylu 408 Urmary infections after rectal excision Brit M J 1028 11 941

Observations on fun al infections of the perianal skin and rectum I H TERRELL and F W SHAW South M J 1929 XX1, 887

Profound anamia due to ulcerated internal hemor thords I F Sapring Med I & Rec 1028 exxviii 508

Liver Gall Bladder Pancreas and Spleen

The distribution of calcium in jaundiced and acholic dogs W C LAIRRSON I Lab & Clin Med 19 8 xiv

Experimental obstructive joundice III The age factor in the production of bradycardia W C Buchsinder

Arch Int Med 1928 thi 743
Differential diagnosis of surgical from non-surgical pundice by laboratory methods L. W. Jourson and P. DICKENS Am I M Sc 1928 civeys 1990

The complete development of biliary tract lesions and the effects of surgical forms of treatment A O WILENSKY Am J Surg 19 8 v 460

A case of biliary lithiasis LOPER RAVIER and TONNET Bull et mem Soc med d hip de Par 1928 vliv 1 43 Functional examination of the liver A V Priscil and I LANGE Acta med Scand 1928 lxix 241

Studies in hepatic insufficiency Diaz and MANCERA Arch de med cirug y especial 1928 ix 05 237 Hepatic insufficiency Jiménez Diaz and Sanciez Coence Arch de med cirig y especial 1928 ix 284
Diseases of the liver and bihary tract J S Diamond

Med J & Rec 1928 CXXVIII 440 Some considerations in disease of the liver ROWNTRIE New England J Med 1928 CXCIX 860 The significance of hepatitis in relation to cholecystiti an experimental study A L WILLIE Brit J Surg 1928

[232] The value of routine estimations of blood bilirubin With a report of 567 cases including a group of unrecog bixed toruc hepatitis J S DIAMOND Am J M Sc 1928

Touc hepatitis with splenomegaly following pregnancy P BOWLER and R C SYVERTSEN New England J Med 1928 even 860

The recurrence of hepatic colic L URBANT Polichin Rome 1928 xxxv sez prat 1675 Actinomycosis of the liver W S FULTON and W M

SHEPPE Virginia M Month 1928 lv 443 2331 Hepatic abscess in a case of intestinal trichomomissis L DE MARIAL Bol inst de clin quir, 1928 1 292

On malaria as an independent etiological factor in portal curhosis J B HANCE Guy's Hosp Rep Lond 19 8 tarvan 3 0
Cal thed hydated cyst of the liver J W Tonfas Rev

Soc de med interna y Soc de tisiol 1928 iv 353 Angioma of the liver I IRIARTE and C

emana m'd 1928 xxxv 293
Phys ological emptying of the gall bladder Madin a
Phys ological emptying of the gall bladder Madin a LITIA Arch de med cirug y especial 1928 ix 324
Autonomous movements of the gall bladder E Moser Deutsche med Wchnschr 1928 hv 744

An analysis of the reaction of the human gall bladder to food E A Boypes Anat Record to 8 gl 147 [233] Gall bladder function as affected by gastro-enterostomy A L. HOLLAND Med Clin N Am 1928 xii 557

Roentgen diagnosis of gall bladder disease I W HFLD (2331 Surg Che N Am 1028 van 12 3 Indigestion its relation to gall bladder disease The

clinical aspect of cholecystic disease W C PUMPELLY I Med Ass Georgia 1928 XVII 514

An erroneous diagnosis of tuberculosis a pseudo tuberculous form of cholecystitis S BONNAMOUR and I DELORE Presse med Par 1928 xxxv1 1106 Cholecystectomy for calculosis after passage of the stone G Baggio Policlin Rome 1028 xxxx

prat res7 Adenomyoma of the gall bladder and diverticulum of L VIIA and D COLILLAS Arch the duodenum E argent de enferm d'apar digest 1028 iii 873

Sarcoma of the gall bladder A ALTHABE and G Dr

PAOLA Semana med 1928 xxxv 775

Cancer of the gall bladder P L lbarz An Fac de med Univ de Montevideo 1928 aus 177 Surgery of the gall bladder J F IRDMANN New 12351

England I Med 10 8 CXCIX 03 Surgery of the bile ducts F H LAREY New England Med 1928 CTCIT Of Sequelar and accidents of biliary surgery E S Jupp

New Ln land J Med 19 8 excix 71 (235) The relation between gall bladder disease and pan

creatitis D F Jones New England J Med 1029 excis 716 12351 Some medical aspects of the diseases of the gall bladder

and bile passages T W WHITE New England I Med 10 8 CXC1X 710 12331 A new device for ele ating the patient particularly in gall bladder operations K. I ROPPING Zentralbl f Chir-

10 8 lv 1346 Recovery from glycosuria following cholecystectomy E C EMERSON J Am M Ass 1928 xc1 163

Cholecystectomy versus cholecysto tomy S Wineyor Acta chirurg Scand 19 8 lvm 5,0 The question of the discharge of bile from the biliar

passages into the duodenum K Michejda Zentralbl Chir 1948 ly 11 0 Congenital atresia and stenosis of the bile ducts. W. T.

LADD J Am M Ass 1928 xc1 1082 [236] What conduct should one adopt in the treatment of

bydatid cysts opening into the bile passages? H Constantial Presse med Par 1923 xxvvi 1217 Studies on bihary fi tulæ Tammann Zentralbl f Chir 10 8 lv 811 12361

Cystic dilatation of the common bile duct record of an example J Taylor Brit. J Surg 1928 2vi 327 [237]
Typhoid cholargeitis and cholecystitis with miliary
abscesses of the liver H E Santee Ann Surg 19 8 laxavın 930

A case of biliary lithiasis with giant calculus in the com mon duct M I DE PETINTO Med Ibera 1928 mi 260 Anuria after choledochotomy for cholelithiasis Richer

Lyon chir 1023 Exv 613 Surgery of the bile passages H G Lagos An Fac de med Univ de Montevideo 1928 xiii 446

A microscopic study of pancreatic secretion in the living A microscopic study of pancreatic secretion in the inving animal W P GOVELL Anni Record 1932 xl 213 Sarcoma of the pancreas case report C D Buxking and W F Haxp South M J 103 Zr 193 kesection of the pancreas J M T LINNEX and J M T LINNEX LIP Ann Surg 1938 kesection of the pancreas J M T LINNEX and J M Splence artery angina T G Scort Goy's Hosp Rep

Lond to 8 levels 490

The spleen and the metaboli m of the lipoils T I Counes Rev med d Rosano 1928 zvill, 338 I hye ological observations upon a splenectomized child

C Vitte Let med d Risario 1928 xvin 329 Acces ory pleens their significance in e ential throm bocytopenic purpura hamorrhagica M Morrisov M Jederer and W Z Iradain Am J M Sc 1948

clares 672 Humoral syndromes of primary splenomegalies BES HASIOL GILLE and Jupi. Presse med Par 10 3 xxx11

In unclassified type of splenomegaly in children HITZROT Ann Surg 1919 Perryut 361

Chucal considerations upon Egyptian splenomegaly I LIZETAKIS Bull et mem boc mid d hop de lar 1028 xliv 1200

A typical hemolytic anam a with plenomegaly ar chil dren 1 O WHIPPLE R I REEVES and C C COBB Ann Surg 19 8 Ixxxx 111 350

Spienectomy for severe anamia with plenometaly Petet Lyon thir 1928 xxv 567 Splen c enlargement with curhosis of the li er J B

DEAVER and S P REIMANN Ann Surg 1948 lexivin [238] in anatom al and pathological contribution upon

tuberculosis of the spleen E II tear Presse med l'ar 1928 TEX 1 1210 A first case of mycetoma of the spleen observed in Lgypt due to a f ngus which was isolated in pure culture

after puncture of the spleen Parzersas and I spaperoute Bull et mem Soc med d hop de lar 10 % zin ro

Primary sarroma of the spicen E Territy Med 1 & Rec 1928 CTAVIII 526

Miscellaneous

Some results of a study of roentgenograms of the ab dominal viscers R O Moony and R G lay less Am Loentgenol 1928 xc 348 12331 Report of a case of amorbic tumor developing in the ratt din fo a E Escoutt Bol mst de clin our

1938 IV 269 rephracolopery on the right side by Donati's method as 6 lated with orthopedic treatment as the treatm at of

election in cases of severe abdominal panyaceroptous with make nephrocolic syndrome predominating A Roxent

kilorina med 1938 211v 1182
The acute abdomen from the general practitioners point of view Brit M J 1938 n 938
Surge al limitations within the abdomen. W H 5z.

CLAIR Virginia VI Month 1028 lv 542
Functional disequilibrium of the diaphragm ptote type II DURAND Ar h med chir de l'appar respir

1028 14 01 Diaphraematic herriz W. E. HONTER California & Hest Wed 1928 Xux 227

Diaphragmatic hernia With a report of cases R (
Grees Texas State J M 1029 xxiv 418 1239 12391 A case of non traumatic right sided disphraematic bernia I Intere and P 1 Centots Senana med

1928 XXXV 736 Posttraumatic diaphraematic hernia B B Ca ix Med Clan N Am 19 8 xu 83

GYNECOLOGY

Uterus

The study of the uterine conformations and their anni ca tion in legal medicine I (ATTOOM Rev de especialida des 4soc med arg nt 1929 in 4 0

Lipiodol in a case of utenne malformation Pins Ituli Soc d'obst et de gynée de Par 1929 v 11 704

Is utenne retroflexion susceptible to correction? A S Gynec et obst 1928 vom 340 Intestinal obstruction secondary to shortening of the

round ligament by Dolers s method J VASVERT Bull Soc d'obst et de gynée de Par 1928 xvu 732

An improved to him tue in the operations of colporthaphy and the Hatkins interposition operation H H GRANT Tr West Surg Ass 1918 Immediate and remote results in 212 cases of prolapse

of the uterus J L BARR and R A REIS 1m J Obst A Cyner 1928 1 1 6,6 Su pers on of the c ruix after abdominal hysterectoms

in a case of prolapse BOVYEAT Ball et mém Soc d thirurgiens de Par 19 5 TT 591 The role of the sympathet can the function I disturb nee of the uterus the apeutic deductions & Corre Rev

franc de gynée et d'obst 1918 xx1.3 4 5
The treatment of cervicitis parti clarly by the cautery and operation F C Holden Am J Obst & Gynec

Tuberculosis of the ceresa of the uterus J C Autware and O PRESTENT Rev argent de obst y ginec 1928 xii

Tuberculosis of the body of the uterus limited to the myometrium G JEANNE TY Bull Soc d bot et de gynée de Par 1928 xvii 706

Radical hysterectomy for tuberculosis of the uterme corpus Barden and André Eull Soc dobst et de gynéc de Par 1028 xvii 7 0

Pyometria caused by a cal ulous concret on lodging of the ervix and obstructing it REES Ball Soc dob t et de gynéc de Par 1929 Avii 750 Uterine hemorrhage and its treatment T S Curicy

Canadian M Ass J 1028 xix 411 Radium emanation in tempo utenne affections J

Metz Med 1 & Rec 10 8 crevm 531 Some cases of acondasm of the uterine corpus t cated by radium Girror Bull Sor dobst et d gynéc d Par 1028 xvii 714

Uterine fibromata and cysts of both o aries Rocke Bull Soc d'obst et de gynée de Par 1928 zvn 691

Intraperationeal harmotrhages from uterme fibromata
A J Horruan Monateschr i Geburtsh u Gynael ross jarvin sto

A case of throma of the uterme cervir LEFEN'ZE Bull Soc d obst et de gynéc de Par 19 8 xvu 7 4 A pseudocysti pedunculated invofibroms of the utera sith torsion of the pedicle diagnosed as a yet of the

ovary G Morra Cun ostet 1928 van 60 Observations on the treatment of 1 000 cases of fibro myoms of the uterus \ CAPIZZANO Bol Soc de obst

y ginec d Buenes Aires 1928 vu 251 I large pediculated fibrom) oma of the left ut me comu P Perm Ditantis Gynécologie 1918 xxvii,

Endometnoma J L T Issuster Med J As trains

1928 H 614 Endometriosis following salpingectomy 1 1 Sixrsol [247] Am I Obst & Gynec 1028 XVI, 461

Hydatidiform mole infection vaginal hysterectomy Kiriy and Lepourre Bull Soc d'obst et de gynéc de Par 1928 van 718

The early diagnosis of cervical carcinoma H Heidler

Wen kin 'Wchesch: 1928 zli 852 The prognostic value of the histological malignancy index and the clinical grouping of carcinomata of the uterine cervix II Scinitz and W Huefer Radiology 19 8 xt 361

Carcinoma of the cervit W P Brown Texas State

Uteteral stricture in cancer of the cervix C L Martin J Am VI Ass 1928 XCI 1537 Leiomyosarcoma of the uterus W T Dannreuther

J Am M 1ss 1923 vci 1532
Radium therapy of carcinoma of the cervix uteri G G

WARD Brit M J 19 8 11 607 [241]
Radsum in the treatment of carcinoma cervicis and in
tractable menorrhagia E F MURRAY Brit M J 1028

n 609 [241]
Comparative evaluation of the results of treatment of cancer of the genital organs in the female by radium and by roentgen radium therapy B Acchanguelsky Gynéc

et obst 1928 xvui 325
Roentgen therapy by the abdominal route in advanced tancers of the uterus I IRIARTE and A GUITARTE

Semana med 1928 recv 461 Vagnal hystere tomy in the treatment of cancer of the

body of the uterus ROLFFART MARY and ROLFFART THREES Arch franco belges de chir 192 xxx 672 The relative ments of the Wertheum and Schauta opera uons for carcinoma of the uterus O G Ter Garrielian

Zischr i Krebsforsch 1928 xvvi 450

The relative value of the Wertheim and Schauta operations in cancer of the cervix A Wollner Am. J. Surg.

towa in cancer of the cervix A Wollner Am J Surg 1928 v 468 Cancer of cervical stump residual to subtotal hysterec tomy for fibroid uterus L D Truespell Ann Surg

1928 Exxxviii 908
Cancer of the cervix after subtotal hysterectomy for foroma Ducting Bull Soc dobst et de gynéc de

Par 1928 xvii 83.

Cancer of the uterne cervix in the stump left after subtotal hysterectomy G Tesauro Gymec et obst

1918 IVII 228

A uterus having undergone a fundohysterectomy one
year previously Bégoury Bull Soc d'obst et de gynéc

de Par 1928 zvu 70,
A plea for vagual hysterectomy in India its indica
tons and technique A record of 150 consecutive cases
A B GREFY ABMYTAGE Indian M Gaz 1928 Isin 613
The ligation of the hypogratic arteries in colpobys
terectomy Sake De Fretors Arch de med cirug y

especial 1928 ix #80
A case of hysterosalpingo-osphorectomy J C Chatter
IEE Calcutta VI J 1928 ixin 198

PE Calcutta M J 1928 XXIII 198
Postoperative complications II Hysterectomy compared with appendectomy A H MILLER Rhode Island M J 19 8 XI 173

Adnexal and Perluterine Conditions

the overy CHENET and MAHON Bull Soc dobst et de gynéc de Par 1918 Evu 710

Cyst of the ovary and pyosalpunt Gthor and VILLAR Bull Soc dobst et de gyné. de Par 1928 zwi 692

Bilateral tubo-ovarian cysts developing in a young noman following gonorrhess acquired in childhood R Gerardin Bull Soc d'obst et de gynée de Par 1928 xvii 756

Cyclical and other variations in the tubal epithelium E NOVAK and H S EVERETT Am J Obst & Gynec 1928 XVI 400 [242]

1928 XVI 499 Salpingography W Luertce Monatsschr I Geburtsh u Gynaek 1927 IXVII 248

Triteen thousand cases of pertubation (tubal insuffia tion) A Maxperstagur Monatsschr f Geburtsh u

Gynack 1928 ltxviii 2,1 Injunes from salpingography R S Hoffmann

Zentralbl f Gynaek 1928 lu 1201 Considerations upon 200 cases of female sterility in

suffiction of the fallopian tubes roentgenological examination D E CANTAVARO Semana med 1928 xxxv 671 Occlusion of the tube and its surgical treatment. Fox Bol Soc de obst y ginec de Bueros Aires 1928 vil, 221. The surgical treatment of sterility with particular than the surgical treatment of sterility with the sur

The surgical treatment of sterility with particular reference to salpingostoms W KERWIN Am J Obst & Gynec 1928 vii 641
Salpingostomy with temporary intubation of the tube in

the treatment of tubal steribty R SCHWARCZ and D CENTAVARO Bol Soc de obst y ginec de Buenos Aires 1928 VII 202 Semana med 1928 XXXV 797 Therapeutic steribization I W WILLIAMS I Am M

Therapeutic stenlization J W WILLIAMS J Am M Ass 1928 xci 1237 [243]
The findings after stenlization by crushing of the tubes according to Madlener Y Kojima Zentralbi f Gynaek

Twisting of the fallopian tube on its pedicle P Scirici

NER Zentralbl f Gynack 19 8 m 1139
Anatomical studies of the intramural part of the uterme
tubes in Chronic inflammatory conditions of the adnesa
II LEMPERT Zischr f Geburtsh u Gynack 19 8
xcm 271

Tuberculous salpinguts A report of cases treated at the Free Hospital for Women Boston 1896 1927 G NAVS SHITH Am J Obst & Gynec 1928 xvi 701 A female (sexual) hormone L LAQUEUR and S E DF DOGON J Am M Ass 1928 xvi 1169 22481

PORCH J Am M Ass 1928 xc 1169 [244]
Effects of oranga preparations on symptoms of the menopause and on basal metabolism] I krvg and E JATTERSON J Am M Ass 1928 xc 1423

Recovery of human ova from the uterine tubes time of ovulation in the mensitual cycle E ALIEN J P PRATT Q U NEWELL and L BLAND J Am M Ass 1928 xc1 19243

Additional observations on internal migration of the ovum in the sow and in the guinea pig. G. L. Kelly Anat Record 1928 31 365.

An anatomical study of the ovaries in cases of important

an anatomical study of the ovaries in cases of important malformations of muellerian origin J Kreis Rev franc de gynéc et d'obst 19 8 xxiii 433

Clinical aspects of ovarian transplantation forty four cases M Thorex Illinois M J 1918 hv 389
Ovarian irradiation L GOLDSTEIN Am J Obst & Gynec 1918 rvs 74

Ovarian harmorrhages Hamant Bodart and Mostager Bull Soc d obst et de gynéc de Par 1918 xvii 737

A case of marked intra abdominal hemorrhage from an ovary during menstruation G lizonada Zentralbi f Chir 1927 liv 3281

Resection of the presacral nerve in sclerocystic ovarities
P GROUZELLE Bull Soc d'obst et de gynéc de Par
1918 xvii 715

Diagnostic errors in gynecology: a study of a hyper nephroma simulating an ovarian cyst G k Givators Gynéc et obst 1918 xviii, 250 A suppurating cyst of the ovary Chenut and Mahon Bull Soc dobst et de gynéc de Par 1928 vvii 713 An unusually large overnan cyst N NEDERGARD Am J Surg 1928 v 511

Torsion of two oxarian cysts in the same patient Plantre Bull et mem Soc d charurgens de Par 1028 xx 640 Cysts of both oxaries and renal tule erculosi extingation of the three lessons at one time recovery DERVAIX

Bull Soc dobst et de gynce de Pur 19 % vvii 731 Removal of a dermoid cyst of the overy and partial resection of the outer overy sub equent pregnancy J Vanverts Bull Soc dobst et de gynce de Par 1018

Cysts of the ovary after hysterectomy for fibroma A Cas sees Co Rev franc de gynéc et dobst 19 8

The development of tumors in ovarie subjected to \ray treatment G Tesaurso Gyné oforie 1918 xxyii 5 3 \Aseminoma of the ovary \lambda \text{Thruse and D Collilas} \text{Semana méd 1928 xxxy 352}

External Genitalia

Lacerations of the pelvic floor and their sequelæ J D McOuren J Lancet 1928 vivin 518
Congenital conglutination of the labia minora A

SCONTRING Clin ostet 1928 xxx 64
A case of vulvar adhesion Audenbert and I abre Bull

Soc d obst et de gynd de Par 92° viii 781 denocarcinoma of the vulv J C AHUMADA Bo Soc de obst y ginec de Buenos Aire 10 8 vii 223.

The treatment of cess ova mal instulte MARTIN

Bull Soc dobst et de gynéc de la r 1928 xv. 870
Suprapubic cystostomy preliminary to operations for ve kovagunal fistula E Mérriz. Gynécolo_{2,2} 1928
xvvu 468 Bull Soc dobst et de gynéc de la r 19 8
xvvu 701

Miscellaneous

Mechanical dy menorrhora Nacitado Arch bras I de med 1928 vani 754 Perdolat in the management of dysmenorrhora Polsch

Klin Wehnschr 19 8 vii 575
Sympathectomy in pelvi neuralgias and dysmenor rhicas A H Molerno Semana med 1928 xxxv 486

Bioclimacteric radiation W KNOCHE I ev m d de Chile 1928 W1 741 Adrenaline myd ias 5 at the menopause J H HANNA

Brit M J 1928 u 931

Premantal examination as routine preventive gynecology P L Dickerson am J Obst & Gynec 9 3

ogy P L Diektsson vm J Oust & Gynec 9 5
xvi 63r
Investigation of the sterde couple I F Sters Illinoi
M J 1928 liv 359

ORSTETRICS

Pregnancy and Its Complications

Premantual prega at prograwd or fun tennal stages of the endometrum." The que tono of nomenclature is virtue. Zentralbi f Ganada 1938 in % 1938 in

Sternity and infertuity—causes and treatment. I C Ruden Aew England J Med. 1938 excut 868 The disgnosus and treatment of sternity A I Gills Brit M J 1928 in 647 Diagnosus and treatment of sternity in momen S FORSDIEG Brit M J 1928 in 649 [215]

FORSDIKE Brit M J 1928 u 649 [245]
Considerations upon two cases of precodous macrogentiosomia A Gureiso and A S Marotta kee
mid Lat Am 1928 xui 2087

Clinical and medicolegal considerations upon a case of pseudohermaphroditi m A PEREERA and F FAUERO Bol Soc de med e cirring de S Faulo 1928 11 184. A case of genital dysmorphism Soties, Dorrir and GELABERT Rev méd de Barcelona 1928 v 217.

GELABERT Rev méd de Barcelona 1928 v 217
Two cases of gental tuberculos: treated by colon
bacillus vaccine Charles and Ratiano Bull Soc debit
et de gynéc de Par 1928 xu 738

Acute gonorrhoza in the female J H Hays J Olla homa State M Ass 1928 xx1 309

The treatment of gonorrhem in the female O Land Therap d Gegenw 1928 km 115 166

Local vaccination in gonococcic disease in the femile ATTOPE Presse med Par 19 8 XXVV 1224. The influence of specific and non specific proteins on the bactericidal power of the blood in staphylococcic and gonococcic infections of the female gentalia G J Pruz

Arch f Gynack 1918 exxxiv 73
Surgical treatment of gonorrhoxa in women F 4
HUDSON J Oklahoma State M Ass 1928 xxi 311
Luctic adhesions in the internal genital organs of the

female A CRUECO Rev arent de obst v gince 19 5
vii 112
An attempt at systematization of the le ions and syn
dromes of douglassitis R Condain Rev franc de

gynéc et d'obst 1928 xviii 417 Hydstil cysts of the genital organs in the female R Pener. Presse méd Par 1928 xxxvi 1193 Pelvic varicocele a clinical case accompanied by hy

terical on es A P Giangionne Semana méd 1928 xxxx 860 Endometrial adenomata in the abdominal car following

cæ arean section W J GERMAN Surg Gynec & Obst 928 xlvn 710 The office use of the electric cautery in gynecology T

W Advars Am J Obst & Gynec 1918 avi 706
The operative prognosis of gynecological affections
complicated by cardiopathy J Precion Riv ital di
gue 1918 vii 600

Surgical te.hinque by the vaninal route J T Bla co G GUERETA and CAMPUZANO Rev méd de Barcelona

What can we learn from a study of mortalities? J O
POLAE and D G TOLLETSON Am J Obst & Gynec
(216)

928 XVI 600

A new case of pregnancy diagnosed by expl ratory o anotomy with discovery of the corpus lateum of pregnancy G Dr ROLVILLE I e franc de gyn et dobst 19 8 xmu 439

Vaginal curettage as a means of diagnosing pregnancy in the guinea pig G L Kelli Anat Record, 1918 il

3 3 Six new cases of pregnancy following exploration of the tubes by the injection of lipiodol F Losex and J DAISACE Bull Soc dobst et de gynéc de Par 1915 247] 247] Intenstal care in general practice Brit M J 19 8 ii

Prenatal care C L Wilson J Nat M Ass 1928 XX

Some antenatal observations on 2 000 cases E B HEFFERNAN Med J Australia 1928 II 5 4 The increase of factic acid in the maternal organism in

normal and pathological pregnancies A Loeser Zen tralb! f Gynack 1928 ln 1450

Heart disease and pregnancy and abdominal casarean section under local an esthesia in cases of heart di ease E FREY and F LARDI Zischr f Geburtsh u Gynael.

1928 XCH 1 The arterial tension the oscillometric index and the oscillometric curve after and before labor in pregnant women of Salta J Mennioroz Bol inst de clin quir 1028 IV 012

Roentgenography of a pelvis deforme I as a result of a double congenital luxation PERY Bull Soc dobst et de gynéc de Par 10 8 avu 705

Lelvic outlet contraction in pregnancy C W Colby ew England J Med 1928 Cecix 871

Hysterosalpingo raphy and the diagnosis of ectopic regnancy M P Ricker and L J WHITEHEAD Am

Roentgenol 10 8 xx 431 A twin ectopic pregnancy J B Danson Med J

lustralia 1928 ii 6 8 A case of bilateral extra uterine pregnancy II D U A ENGELSCHARD Med rev 1928 the 10

Abdominal pregnancy with report of a case II O Sainver Minnesota Med 1928 vi 748

A case of abdominal premancy removed per satinam

A Scorr Am J Obst & Gynec 1928 xv1 699 Abdominal pregnancy operated upon and cured with

the fetus near term DERVAUX Bull Soc dobst et de gynéc de Par 19 8 xv1 729

The treatment of complications of tubal pregnan y C E Pixes Bol Soc de med e cirurg de S Paulo 1928 N 118

Acute appendicitis with ripture of a bilateral tubal regnancy A GUILLEMIN Bull Soc dobst et de gynéc de lar 1928 xun 649

The exchange of nucleoproteids between the mother and fetus and its relation to the placental function A Max Tixotit Riv ital di ginec 1928 vii 659 Glucose catabolism in the human placenta and the in

Suence of hormones on it 5 HAYASHI Blochem Zischr 1928 czevi 323 1 study of the vascular anastomoses in by dramnios and

an ovular twin pregnancy M MUTEL and H VERMELIN Gynéc et obst 1925 xvm 217

A large hydramnios simulating an ovarian cyst H 1 MAISTER Guy : Hosp Rep Lond 1928 LXVIII 482 Experimental study of premature separation of the pla enta R BOMPLAYI and V STILON RIV Ital diginec

1918 vn 457 tess of uteroplacental apoplexs A J Guren Sensas med 1918 xxxv 400 Entre and Three cases of central placenta previa Goutners and Three cases of central placenta placenta

NU OF

Two observations of placenta pravia reflexa during labor diagnosis symptoms treatment by low carsarean section A study of the formation of the lower uterine segment J karis Gynéc et obst 1928 xviii 136 [249]
Classi al carsarean section for placenta pravia F
ARGONZ Rev méd d Rosario 1928 xviii 335

Two new cases of retroplacental hemorrhage M Rivière Bull Son d'obst et de gynée de Par 1928 XVII 697

The so-called chemical test in blood for sex differentia tion H SHARLIT and I LORSERBLATT J Lab & Clin

Med 1928 xiv 119 Can the age of a fetus be determined from the degree of development of the bones? A study based on the state of

the centers of ossification in single-ovum twins CATHALA and J BARDY Bull Soc d'obst et de gynée de [250] Far 1928 xvii 601 The fetal heart W. BREHN Omo State M J 1918

A case of uterine asystolia A Leuterge R. Garcin and J Lacave Laplacye Gynécologie 1928 XXVII 537

Anencephalic fetus BAUY Bull Soc dobst et de gynée de Par 1928 xvii 809 Generalized cedema of the fetus with congenital ascites

hydroperscardium cystic lymphangioma of the neck and pseudocystic placenta. G. Weiner. Lull. Soc. d.obst. et de gynéc de l'ar 19 8 xvn 758

A case of animum of pregnancy AUDEBERT and l'ABRE Bull Soc d'obst et de gynéc de Par 1928 xvu 781

Hemolytic animia in pregnancy W ALLAN Surg Gynec & Obst 1928 xlvn 660

l emicious anamia of pregnancy treated by Whipple's method by small transfusions and autohemotherapy AUDEBERT and FABRE Bull Soc dobst et de gynéc de

Far 1028 EVH 771 The differentiation of the reducing bodies in the unite

during pregnancy R ROCKWOOD and E F Donce Surg Gynec & Obst 1928 thu 660 The structure and function of the ureter during preg nancy | Hornauer | Urol 1028 xt 413 12501

Lactors predisposing to prelitis in pregnancy J W Duncan and M I Send Am J Obst & Gynec 1928 TV3 557

New orientations in the etiology pathogenesis and treatment of pyelonephritis of pregnancy A R Enriquez and C J DUVERGES Rev argent de obst 3 ginec 1928

New cases of intractable vomiting cured by psycho therapy AUDEBERT and ALBENQUE Bull Soc dobst et de gynéc de Par 1028 xvu 788 A case of intractable vomiting in a pregnant woman

cured by the administration of insulin M SEIDLER and J WEINSAFT Polska gaz lek 1927 vi 495 O Bokelmann and my work on the insulin treatment

for the toxemias of pregnancy A Lolser Zentralbl f Gynaek 10 8 lu 1404 I ernicious vomiting of pregnancy with autopsy find

ings S Koser Sky Canadian M Ass J 1928 xix 574 Toxamias of pregnancy J O Polax Illinois M I 1928 liv 352

Forty five cases of pregnancy toxicosis-acidosistreatment with insulin A Loesen Zentralbl f Gynaek 1928 ln 1405 [250]

The phenoltetrachlorphthalem test of liver function in the late toxemus of pregnancy S BERMAN Obst & Gynec 1928 zv1 410

The cal sum son concentration in pregnancy and its relation to the question of susceptibility to convulsions O BOKELMAN and A BOCK Klin Wchnschr 1027 VI

Some modern ideas concerning etiology pathogenesis and treatment of the eclampsia of pregnancy L RAZETTI

Rev de med y tirug Caracas 1928 xi 360 The mechanisti conception of eclampsia PARAMORE Lancet 1928 coxv 914

The duty of the physician in the presence of eclampsia JEANNY Canadian M 1ss J 1928 EX 519 Lascular spasm in eclampsia G Haselhozst and L

MYLIUS Zentralbl ! Gynael 1928 lu 1180

A severe and fatal case of eclampsia treated by ab dominal casarcan section S M CERRUTI and A LALANNE Semana med 1928 EXEV 494

Diabetes of hypophyseal origin and pregnancy French shorz Vermerin and Hennequin Bull Soc dobst et de gynée de Par 1923 and 11

Appendictisin pregnancy Pir Rabbre and Levrer Bull Soc dobst et de gynéc de Par 1928 xvi 111 Suppurative appendictis at the filth month of pre nancy afortion recovery Dravary Bull Soc dobst et de gynée de Par 1928 xvi 128

Pentoneal tuberculosis and pregnancy G Lévy Bull Soc dobst et de gyné de l'ar 1928 xvi 740 Prolonged gestation paternal and maternal syphilis methol of treatment T Fatcher Bull Soc dobst et

de gynée de Par 1928 xvii 690
A comparison of the Wassermann and precipitation re actions in pregnancy. With a report of 100 sigma and 400

actions in pregnancy With a report of 100 sigms and 400
Hinton tests S S Joves Northwest Med 1928 Excus
526
Premature labor and erythrodermia due to neosalvarsan

ALDEBERT and LABRE Bull box dobst et de gynée de Par 1928 xvn 7 9 The problem of therapeutic abortion G MULLER

Bergalowe Rev med de la Susse Rom 1928 alviu
807
A case of streptococcic infection following abortion with

a favorable out ome following the administration of antitoric strepts o cie serum. B. Greaveowski Giorkol pol ka. 1928 vi 6.
Multiple uterine fibromyomata in premancy. A.

GUIROV and R. D. BERNASCONI Semana med 1928 xxxv 634 Myomectomy during pregnancy R. VACDESCAL. Brit

A case of pregnancy at term with incarcerated fibroina exesarian operation followed by subtotal hysterectomy

R p Ernst Bruxelles m d 1928 viii 1458
Pregnancy complicated by carcinoma of the uterine
certix W Natle In Radiology 1928 at 429

Labor and Its Complications

Buccal herpes accompanied by angins in a lying in woman AUDEBERT and LABRE Bull box dobst et de gynéc de Par 1928 zvil, 778

The influence of athletic training on the course of labor H Casren Deutsche med Weinschr 1928 his 821 A case of early premature labor with survival of the haby W I STRYLY Canadian M Ass I 1928 his

Fremature rupture of the bag of waters and incisions of the cervix J kreis Bull Soc d obst et de gynéc de

Par 1928 xvii 769
The treatment of uterine mertia D E \ Esquiver
Semana méd 1928 xxxv 420

Climical results obtained with oxytocia and vasopressin the re-ently isolated principles of pituitary estract G G Ward E C Lyon Jr and G G Bents Am J Obst & Gynec 1923 xvi 655

A shortening of normal labor D A Osyscii. Gynéc et obst 1918 xviii 198 Eurther experiences with avertin twilight sleep during

Libor E Markin Deutsche med Wichnschr 1928 is.
180
Conduct of labor in cardiac cases E Saum Deutsche

med Welmschr 1938 liv 45
Delivery by Delmas method to the case of an eclamptic patient. Diffusiv Ba'll Soc d'obst et de gynéc de Par 1928 xvii 725

Retrodiplacement of the cervix during labor A MAYER Zentralbi I Gyanek 1928 lt 1242 Three cases of obstetical hamorthage arrested by the clamp method Mouracies Bull Soc dobst et de grace de Par 1028 xwi 179

The prevention of complete rupture of the permeum.

S Warcar But M J 10 3 11 034

Rupture of the uterus in asymptomatic labor D

A case of complete cutaneous rupture of the uterus occurring during labor D A Rojas Bol So. de obst.

Y since de Buenos Aires 1928 vii 236

Presentation of a case of uterine dystocia E A Pozzo
Bol Soc de obst y since de Ecenos Aires 1918 vii 116

Bol Soc de obst v ginec de Buenos Aires 1938 vu sit Dystocia due to large size of the fetus in the case of a woman suffering from diabetes Bavx. Bull Soc d obst et de grade, de l'ar 19 8 xvii 76,

Dysto is due to the soft parts Canals At h. de med, cirug y especial 1918 ix 253

Annular dystocia D A Rojas Semana med 1925

Dystocia due to a vaginal disphragm Batt But. Soc d'obst et de gynéc de Par 1915 xvii 810
Pregnancy and labor in a case of digitions polyal noms of the uterine cervix ALDERERT and ENTEXYS Bull Soc d'obst et de gynec de Par 1918 xvii 794

Congenital ectopic kidney as a tumor pravia in labor

Some remarks on failed forceps B Solowo's Insh
J M Sc 1928 6 8 69,
Delivery of a woman who had had two large medial

incisions of the cervix in a previous delivery Garrett and Extres iv Bull Soc d'obst, et de gynéc de l'ar 1918 avu 7 ó Zérates operation C Correa Rev de gynéc é

Symphysiotomy Zirates operation an experimental and anatomi al study M V Faish Sema a mod 19 8

EXX 457
Zárate s symphy stotomy a clinical and personal erprience D F V Esquiver. Semana méd 1938 xxx 617
Some special points in the technique of Zárate's opera

Some special points in the tennique of Little South ton (subcutaneous symphysiotomy). R. lattiffch an H. Van den House Gynée et obst. 1928 rvm. 205 Den means for the prevention of casarean section. B. Van Hoosen. \above, take State M. J. 1928 zm. 432

Casareas operations in Russia 17 6-1914 A Post MARPIP Gynéc et obst 1924 xviii 103 Spinal aussitiesia for casarean section Accussiva and Estranya Bull Soc d'obst et de gynéc de Par 1019

svi Soi
Subdividing obstetrics into normal (home) and overative
(clinic) I The superiority of abdominal casarean section.

If Sorting out the cases I Hunca. Zentralbl. I Gynack 1928, in 1377 1434 Abnormal achiesons of the lower pole of the orum ran denng complete dilatation impossible mutilating cases

denng complete dilatation impossible mutilating casa rean section Baltx. Bull Soc d obst et de gyné, de Par 19 8 xvu 66

Abnormal location of the uterine cervix necessitating consarean section. But V Bull Soc dobst et de gynt. de Par 1928 xvii 767

Uterus didelphus dystocia due to the non-pregions corra, onservati e carsarean section survival of no het and shill Form DER Bull oc dobst et de grace.

and shild F Formance Bull too dobst et de gynes de Par 1928 xvn 768
Arrested brow presentation late emergency creares

section hysterectomy drainage livin mother and third.
FOURNER Bull Soc debot et de gyrefe, de l'ar 19 %

Obstructing fibroma przevia cresarean section and hys terectomy Mikulics phlebitis at the fifteenth day em bolism at the thirty fifth day recovery FOURNIER Bull Soc d'obst et de gynéc de Par 1028 xvii ,8 Generally contracted pelvis low casarean section Baux

Bull boc d'obst et de gynéc de Par 1028 Tell 808 Considerations upon thirty one cases of segmental casarean section D Intera and C D Menina Soc de obst y pinec de Buenos Aires 1928 vil 266 Considerations on thirty one ca es of casarean section

CHAMORRO and IRAETA Bol Soc de obst y ginec de

Buenos Aires to S vii 28c Segmental casarean section in the Salaberry Maternity Hospital I A CHAYORRO Semana méd 1928 ett 849 Two spontan ous deliveries at term of a woman who had been subjected to exparean section for pelvic dystocia BERTROU Bull Soc d'obst et de gynéc de Par 1928

Modifications of the uterus and the adness following Portes operation S N BERRA Scmana med 1928 TXXV 450

A histological study of a uterine scar following clesarean section Aupeneur and Faste Bull Soc dobst et de gynée de l'ar 1928 xvit 816

Fmbryotomy B SERRAO Folham d 10 8 17 1/6 Embryotomy on the living fetus J A GABASTOU

Semana méd 1928 xxxv 466

Is manual extraction of the placenta a very dangerous oroxedure? H Hemter and B STEINHARDT Rev argent de obst y gine 1928 xii 63 [252] C) atn all atresia of the cervix after labor subsequent hematometria Dicurno and Rascot. Bull Soc d'obst et de gynéc de l'ar 1928 xvu 99

Acute postpartum dilatation of the stomach Bull Soc d'obst et de gynéc de Par 1928 TVII 6 o [252] Acute gastric dilatation after double extra uterine pregnancy N J Everand Brit M J 1929 u 845 A case of extra abdominal postpartum hysterectomy

SILAROLI Clin ostet 1928 xxx 575

Puerperium and Its Complications

A contribution to the study of the psychosis of lactation Méxacné Bull Soc d'obst et de gynéc de Par 1928 XVII 807

Postpa um uterine retrodeviations and their treatment A FRUHINSHOLZ Rev franc de gynéc et d'obst 1928

The pastrine content in the puerpenum and in ome

gine ological affections A ALBANESE Riv ital di goec 1928 vii 393 The behavior of the azurophilic granules in the puer

penum in the newborn and in ertain gyne ological affe tions P Bantao Clin ostet 1923 xxx 545

Supplylococcic postpartium urmary infection J gynéc de Par 1928 zvu 734

The prophylatis of puerperal fever NUBIOLA Arch de med cirug y e pecial 1928 ix 22

Puerperal infection P FINDLEY Ohio State M J 1928 XTIV 773 Maternal mortality from nuerperal sensis an analysis

of the factors of contagion trauma and auto-infection] You've Edinburgh M J 1928 xxxv Edinburgh Obst 12521 Soc 148

Late postpartum hamorrhages with infection curettage recovery Hartmany Bull bor dobst et de gynéc de Par 10 8 xvii 747

I case of postpartum eclampera A MEVACHT and L Montano Bull So d'obst et de gynée de Par 10 8 xvii 8oc

Postpartum shock M 1 Parsia Folha med 1028 IX 260 Postnarium shock an interesting personal observation MI I Farsfa Semana méd 1028 xxxv 625

Newborn

Zentralbi f Gynzek 1928 lu 133 Lugland J Med The fate of children born prematurely T STEINFORTH

1029 LECUX D.6 Remarks on causes of asphyvia of the newborn and on

resuscitation B C 5word New Ingland 1 Med 1928 CICIX D O Resuscitation from asphytia in the newborn and others HENDERSON New Fingland I Med 19 9 cacit 0,7 A case of traumatic root paralysis of the di sociated lumbosacral type of obstetri al ongin A FRUITSHOLZ

and L CORNIL Bull Soc dobst et de gynée de Par 1028 AVII 744 The rôle of the physician in the reaging of children \

GOLDBLOOM A York State I M 10

Miscellaneous

The progress of ob tetrics in the present century \ \ L McLikov Insh I M Sc 1028 6 s 601

A brief review of some old and new obstetrical problems

BEAR Virginia M Month 1928 by 525 The relation of headaches to obstetri a and gynecology

Outlines of a German midwiery law D Martin Monatssche f Geburtsh u Gynaek 1928 lruz 375 Roentgen study of the bladder in obstetrics and gypecol

ogy V Doculorn Ray stal digenee 1918 vs. 525 [253] The in ideace of syphilis in the obstetrical clinic at the University of Nebraska College of Medicine E. C. Sacr. Nebraska State VI I 1928 xitt 405 The treatment of syphilitic mothers and children in well

fare stations M HAHN Ztschr f Geburtsh u Gynaek. 1918 xcm 29 318

The proof of defloration and labor T ANTOINE
Bett 2 gen bit Med 1918 vn 160

Medicolegal considerations of professional secrets death

certificates legal reports and duty of the physician to report cases of cruninal abortion G STRASSMAN Zentralbl f Gynael 1928 ln 1585

GENITO-URINARY SURGERY

Adrenal Lidney and Ureter

Acute insufficiency in the course of latent tuberculosis of the adrenal glands the effects of intravenous injection of adrenalm 1 Botrsafe and M Griser Bull et mem Soc med d hij de Par 1928 the 1385

Adrenal h#morrhage in an infant L L BROWN Vinnesota Med 1923 zi 751

A case of lupus of the nose simulating an epithelioma with caseous tuberculosis of the suntarenal capsule and the addisonian syndrome P Crurrini Riforma med 1025 zliv 1241

Adrenal tumors arteral hypertension studies upon the content of adrenalia in human adrenals at autopy L LANGEROY and P LOPÉAC Presse méd Par 1928 XXVI 1153

Hypernephroma I H Salter Nebraska State M

J 1928 xm 401

The clinical value of the salivary urea index C L

STEAL J Lab & Clm Med 1928 xiv 162

The range of the urea concentration test T C Hevr Lancet 1928 cczv 912 The circulation of the normal human kidney R A

Moore Anat Record 1918 xl 5x [2-4]
The surgical pathology of malformations in the kidneys and ureters J E Davis J Urol 10 8 xx 123 [254]
Luthasis in a horseshoe kidney E Tatic Presse med

Par 1928 TTTV1, 1210

A gunt renal calculus with epithelioma in a horseshoe lidney R J Wittan Bot J burg 1928 xvi 317 [254] The rôle of kidney function in urological surgery II G Blooke J Urol 1928 xx 541

Movable krines L W Bremerman Illinois M J 1918 ltv 373

Report of a case of supposed pel ic kidney C M Mckeyn J Urol 1928 xx 633 Anuna in a solitary kidney G GECCRELLI I d'urol

méd et chir 1918 xvvi 334

Three cases of mastic kidney P Lecène C W Dr.
Bouchet and G Wolfroum J durol m'd et chir
19 8 vvvi 244

19 8 YVV 244

The advantages of dangers of the inlying ureteral cath eter in kidney infections F C Sixw South M J 1028 XV 550

Renal tuberculosis The healing of tuberculous nephrectomy wounds B G Scholerfeld J Urol 928 xx 345 asse of renal calcula at the West Ho pital Rajkot I T Heyrours Indian M Gaz 1928 I in 648

Chromocystoscopy with indigocarmine without cathe tenzation a test of the functional condition of the kidneys re u'ts us r nal lithia is J Atrin: Arch urol de la clin de Ne ker 1038 vi 117

de Ne ker 1938 vi 117

The prevention of recurrent renal calcula E O Nay
J Urol 1928 xx 553

Prelographic diagnosis of tumors of the kidney J SALLERAS Rev de espe inhilades also med argent 10 8 m 450

10 8 in 420
Pyelography and the diagnosis of cystic kidney J
Sallieras Semana med 1078 xxxv 764
Hydatid cyst of the right kidney enucleation without

nephre tomy R SPURE Rev de especialidades Asoc med argent 1028 III 403 The so-called hygroma of the kidney G S Effern 1

The so-called hygroma of the kidney G S Epstern J
d utol med et char to 23 xxvi t4t
Teratoma of the kidney S MacDonald Pro. Roy

Soc Med Lond 1928 xx1 893 [255]
Conservative Lidney surgery W E Lower and G

Betcher Am J Surg 1918 v 191 [255]
Cystic dilatation of the lower and of the ureter A
Movementors Rev de especial dades Asoc méd

argent 1928 14 385
Extravesical openings of the ureter R Dossot Arch
urol de la clin de Necker 1928 vi 133

urol de la clin de Accret 1938 vi 133
Sincture of the ureter W T Branch J Am M
1ss 1928, xci 1763
Ureteral stricture B C Correts Illinois M J 1948

Iv 341 Ureleval stricture II W BERDSONG J Med 438

Georgia, 1918 1911 513
The mobilization of ureteral calcula A G Casaretto
I durol med et chir 19 8 xxvi, 331

The treatment of ureteral lithness with oil injecti is G VICAR. Rev de especialidades Assoc med argent 1938 in 412 A case of ureteral calculus operated upon and cured S HYNORIA Bol Soci da med especial Social Social Soci

S HONGRIA Bol Soc de med e cirurg de S Paulo 1918 u 187

Bladder Urethra and Penis

The relation of bladder pressure to bladder function E. W. Hisself. J. Am. M. Ass. 1248 xc. 7: [256]. The clinical neurophysiology of the automatic unnary bladder and enuresis. C. P. McChinic, J. Urol. 10; 4: xc. 267.

Some cases of vesico-ureteral reflux L. Caronius Riforma med 1928 aliv 1160

The treatment of bladder paralysis d e to non tabets

spinal cord lesions G T Cabill Am J Surg 1928 v, 447 A case of exstrophy of the bladder M V Careller Ulm y lab 1928 xiv 115

Cystography as an aid to urological analysis J S KITTER Am J Surg to 8 v 454 Diagnosis of bladder or deep u ethral injury D

Disgnosis of bladder or deep u ethral injury D \ Eisenbratik and H C Rolnick J Am M Ass. 19 \ xc1 1548

Traumatic rupture of the bladder May Morent

Rev med d Unguay, 1928 xxu 83 Varicocele of the bladder W S Pion Internat. J

Med & Surg 1928 xli 537 A case of stenosis of the vesical neck Blanchof and Pastelo J durol med et chir 1928 xtvi 2 6 Fibrosis of the vesical neck. K H Hernst J Am M

Ass 19 8 xci 1614
Purputa of the bladder Report of a case with scute
attitular manifestations I | Shurko J Urol 19 8,

Tre Sol Urethrocystography in a case of vesicoprostate dia phragm J V Goverlez J durol med et chir 19 5 xvi 36

Discription of the bladder H Fischer Ann Surg 1928 Ixxxviii 910

Bilateral vesical diverticula at the ureteral onfice vioalized with lipiodol Report of a ca = J N vising 1 Urol 1918 xx 451 Late syphilitic cystitis U Isx upit Rev de especial idades Asoc med argent 1938 m 448 Semaa med

idades Aooc med argent 1928 in 418 Semana med 1928 xxxv 9 A large vesical calculus and multiple calculu of the ure e HORTOLOME: J d urol med et chir 1928 xxv 151...

The influence of a calculus in a directionium of the blad det upon renal elimination U Isvaani Rev de especial idades Asoc med argent 1928 in 416
Eliusive ulcer of the bladder J Z Mraz J Oklabon

State M Ass 1928 xx1 320
An unusual case of angioma of the b adder 2/1200

J duroi med et chir 1918 xxv1 235 Leukoplakia of the trigone H W CALLARIA J Okla

homa State M Ass 1928 xm 323
A study of ep thelial neoplasms of the urmary bladder
before J Utol 1928 xx 371
Exstrophy of the bladder compliance by carcino at
Exstrophy of the bladder compliance by carcino at

Extropay of the bladder computed to 15 June and H L Thousan's Arth Surg 1985 are 164 Carcinoms of a disertentiation of the unnary bladder J C Karmooter Wil Surgeon 1935 km 213 Endowposed electrocognitation of immors difficult of ac

Endoresical electrocoagulation of immors difficult of cess O Eritter J durol méd et chir 1932 and 176 Tho vaginal speculum in endovemal s 1987. A ASTRALIT Rev de especialid des Asoc méd 1981 4 478

Total cystectomy in women C ANTONLECT I de chir 1018 XXXII ICC The intra-contheliary capillaries in the mucosa of the

urethra O M De Sousa and I Sawaya Bol Soc de med e circire de S Paulo 1028 XI 100

The posterior urethra O R GREGG J Oklahoma State M 433 1928 xxt 314 In impassable stricture of the posterior urethra due to fra ture of the bony pelvis external urethrotomy hypo gastric derivation of the urine recovery J Sulleras Semana med 19 8 xxxv 350 Rev de especialidades

Asoc med argent 1028 m 453 Report of a case of tuberculous stricture of the urethra LAVAL and PASTEAU I durol med et chir 10 8 xxvi

Severe urethrorrhagia secondary to dilatations of the urethra \ \ \nvricr | 1 d urol méd et chir 10 8 xxvi

133 1 case of double urethra with gonorrhosal urethritis in both urethra: A TRABLECO and I Syrbel Semana med 1928 TATY ,80

hadure of autovaccination in a case of urethral infection due to a pure culture of an undetermined coccus | I IANET J durol med et chir 10 8 xxvi 254

A prethral calculus of unusual size II R B HULL and R J G PARNELL Lancet 1928 ccxv 1023

Incontinence of urine due to a urethrocele following a septum formation urethroplasty recovery Micnox Lyon chir 10 8 xxv for

The treatment of cancer of the urethra in the female by radium therapy H PRUCHLYUD Arch urol de la clin de tecker 102 VI 18,

Foreign bodies encircling the penis R W McKay South M J 1928 xx1 943
The penile sores G L Borecky J Oklahoma State

M 488 1028 XX2 318

Genital Organs

The diagno is and treatment of sterility in the male L WALKER Brit M J 1928 H 6,2 Vibratory massage of the prostate \ L WOLBARST

J 1m 1/ 1ss 1928 xc1 1371 Why are prostatics not able to urmate \ Serrallacii and I SERRALLACH I durol m d et chir 1928 xxvi

Irostatism Sir J R Ponerts Indian M Gaz 1928

The interpretation of chronic infections of the prostate and seminal vesicles R D HERROLD J 1m 11 1ss

1978 x: 537

Thases of the pathology diagnosis and treatment of careinoma of the prostate

B S BARRICER J Urol [259] 12591 Small carcinomata of the prostate gland T T Hirschi

an I L. I SCHMENT J Urol 1928 XX 39 [259] My experience with prostatectomy P CIFLINTES Med Ibera 1928 xii 109

acti avera 1912 at 1909
The technique of prostatectomy and its results Originary especial 1918 vi 525
Termeal prostatectomy L Davis J Lm M Ass

1928 XCI 1018

B lateral wase tomy for the prevent on of epid dymitis in prostation M MELTEER N York State J M 1928

S Puch J hm M Ass 1918 xct 1443 Steinach's operation J Logot Lolha med 928 12

Volvulus of the testis L O ZENO and O CAMES Semana med 1928 xxxv 616 The surgical treatment of testicular ectopias R 1 PIVAROLA and A C CLCULLU Semana med 1028 xxxv

Crossed ectopia of the testis G IDAN Inn danat

path 1928 1 739 Spermatocele M I CAMPBELL J Urol 1928 XV /2591

case of gigantic bilocular hydrocele R C FERRARI Bol mst de clin quit 1928 tv 51

Variouele due to reflux J Arce and O Ivanissevich The on in of Ivanissevich's operation for varicocele M Soveto Semana méd 1928 xxxv ,20 Phagedenic de truction of the male genitalia J H

LABADIE I Am M Ass 1028 xci 1447

Miscellaneous

Urological problems S DEPORTE J Oklahoma State M Ass 1028 xx1 125 Urological conditions in children B A Thomas and I

BIRDSALL J Am M Ass 19 8 xct 1428 Pitfalls in urography M B WESSON J Urol

Unusual urological cases B H HAGER J Urol 10 8 A review of utological surgery A J Scholl E S Judd

L D KEYSER G S FOLLDS J VERBRICGE and A A AUTZMANN Arch Surg 1928 XVII 87 Comparative activity of some local anaethetics on mu

cous surfaces of the urmary tract. G. A. Fieder Am. I. Surg 1928 v 480 A clinical study of enuresis A BLEYER Am 1 Dis

(bild ro28 xxxvi oSo Lourest in children H BALNE Arch Pediat 1928 xlv 604

The treatment of urmary fistula secondary to a laparot omy R Spurg I ev de especialidades Asoc med argent 1028 m 93 Extravasation of urine H M Soloway 1 Urol to 8 ** 500

A pediatric view of pyuria F C Johnson J Med Soc A Jersey 19 8 xxv /10 Unnary calculi in children C & Smith J Am M

Ass 1928 XCI 1131 I velolithotomy forceps W K IRWIN I ancet 1028

Chemical blood changes produced by obstructive les ons of the progenital tract C & BANDLER J A KILLIAN and M B JOHNSTON Am J Surg 1929 v 440

The treatment of gonorrhox in some European clini s J S GROVE Illinois M J 1928 liv 381
Protein therapy of gonorrhoxa P Carpozo-Legéni. Folha med 1928 ts 300

Clinical observations of gonorrhom in the male L M Better Illinois M J 1918 liv 345
The acute complications of gonorrhom J Suleras

W A COLODRERO and I Di LELLA Res de e perialida des Asoc méd ag nt 19 8 m 457 Statistical data concerning gonorrhom and venereal

chancres in syphilis over a period of eighteen years LIVAREZ SANZ DE MA and FORNS CONTERA Arch de med cirug y especial 1928 ix 263 Streptobarillar chancre its treatment F F GRIMAEDI

and R DES CANARD Semana med 1928 xxxv 00 The varying treatment of soft chancre and its complica-

tion chancro dal adenitis E DEC GERCIA SERRAND Cin y lab 1928 xiv 229

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

Conditions of the Bones Joints Muscles Tendons Etc

Changes in posture C Sweet R G Warson and H I Stafforn J Am M Ass 1028 xel 1519 Two orthoped: cases R H Russett J College Surg

Australasia 1028 1 1 Diaphysial aclasis J H Eisron Proc Roy Soc Med.

Lond 1928 vin 3 Single exostosis C P G WAKELEY Proc Roy Soc Med Lond 1928 tot 3 The clinical and roentgenolo ical study of pathological

changes in bone D PRAT and I A BARCIA An Fac de med Univ de Montevideo 1028 xiii 461 Healing in infantile scurvy as shown by the \ ray S

McLEAN and R McINTOSH Am J Dis Child. 1928 XXXVI 875 An investigation of the prenatal factor in the susceptibil

ity of infants to ri kets. A. F. Hass and M. Menstrock. Am J Dis Child 1028 xxxv1 066 A companson of cod liver oil and ultriviolet I ght for use in the prevention of ri kets A D Holmes 1 T Writes

L W SMITH and M & PROOTT Am J Dis Child 1928 ATAVI Q. A case of osteopathy in a man of twenty two years

(chronic diffuse and progressive atrophic osteitis) L Baronnery J Delarce and P R Bize Bull et mem Soc med d hop de Par 19 8 xlm 1248

Oscous changes in hemolytic icterus L. J FRIEDMAN Am J Roentgenol 1028 xx 440 The types of tubercle bacilli in human bone and joint

tuberculos: A 5 GRIFFITH J Path & Bacteriol 1928 xxxi 872 12611 The use of Vernes resorcine in the diagnosis and prog nosis of bone tul erculos: A Breton and P Ingalrans

I resse méd Par 1028 xxxv1 1207 The condition of the osseous system in hered tary syph ths of early infancy M PERU and A POLICARD Presse

med 1 ar 1928 xvvvi 1121 Upusual forms of osteomyelitis D B Pinistster Northwest Med 10 8 xxvu 460 [261]

Extensive osteomyelitis with massive resection O C CASSEGRAIN New O leans M & S J 1928 luxi 326 Chronic abscess of bone (Brodie) A O WILENSEY Im J Surg 1928 4 45

A case of chrom bone abscess Brodie's abscess D Tost Pad ol med 1028 xv 948 The ro nteenological diamosis of giant cell tumors

G MEDA Rad of med to 8 xv 887 The surgical simili ance of giant cell tumors of bone TYTGAT Bruxelles m d 10 8 vii 142

The value of roentgen ray therapy in primary in lignant tumors and in benign guart-cell tumor of bone W A

1 case of Ewin sarcoma C Filipps and A Cald I oliclin I ome 1918 xxxv sez chir 48 Unusual types of osteo enic sarcomata V II Kenler

Texas State J M 19 8 xxiv 4 0 exas State J M 19 8 xxiv 40.

The cytolory of the synovial food of normal joints J A 12631 Key Anat Record 1928 at 91 [263] Tuberculous syno its S P Vázot z and J M M Arros Med Ibera 198 an 209

The synovial fluid in chroni arthriti bacteriologi and tology C E FORENER A R SHAND and M A Poston Arch Int Med 1928 xlu 675

Trauma and arthritis (etiology and treatment) A R. SHANDS JR Internat J. Med & Surg 1928 2h 543 Chini al aspects of chroni arthritis B II Agence

Med Clin \ Am 1928 211 659 The etiology of rheumatoid arthritis \ Gmsor Bone & Joint Surg 19 8 x 747 12631

Re ent ad ancement in the treatment of gonorrhead arthritis in the male & Sinha Calcutta M I 1925 TIN 104 The treatment of tuberculous osteoarthritis by the

method of Robertson Lavalle M Capetta, Semana m6d 1928 xx tv 49
Acute painful anhylosing arthritis W G Strg.]
Am M Ass 1928 xci 1233

I tendon clamp for measurements of muscular tension. E KARRER and H C STEVENS I Lab & Chn Med.

1023 XIV 171 Obstetrical paralysis some factors in its product on progress and treatment G D F McFadder J Bone and Joint Surg 1918 x 661

Myofascitis from an orthoped c standpoint F H, At BEE J Am M Ass 1928 xci 1364 Metastatic mu cular abscesses-case report E D

Surru Internat J Med & Surg 1928 zli 548
A case of traumatic myosius ossincans C W J Roy Army Med Corps Lond 1928 li 3 6

Shoulder pain M CLEVEL AND New England J Med. 1028 excux 867 Some late results of dislocation of the shoulder "!

WHITE Glaseon M I 1918 CX 293 The anatom cal varieties of Sprengel's deformity A. MEZZARI Radiol med 19 8 sv 904

Congenital absence of the clavi les (hereditary cicalo-cran al dystosis) W Davis and H Frecus Med J lustralia 918 n 513

Compound injuries of the extremities J H Guiocx Am J bur 1928 v 281 Ca e for diagnosis guminatous ostettes of the humers
(?) C E Suarrock Proc Roy Soc Med Lord 1918

A case of my ositis os ificans in the triceps tendon P C. Poy Calcutta VI J 1928 xxiii 197

Volkmann's ischemic contracture with special ref rence to treatment SIR R JONES But M J 1918 u, 630 An unusual case of bind thumb G Busacci Radiol

med 1928 xv 938 New experiences with posttraumatic disease, of the seriebrae Kuruurli Zentralbl f Chir 1918 ly

I new method for obtaining lateral projection of the last cers cal and first dorsal vertebræ V Dans Acqua Radiol med 1918 xv 843

Dystoma of tors on the hyphotic variety O Di Lerio P ognostic signs in th \ rays of tuberculous sp ars in children R & GHERMLEY and J I BRIDLEY J Bone & Joint Surg 98 v 96 Treatment of ve t brai tuberculosis by the spine fus on

op ration Report of 186 cases A seco d series. R. A. Himes and J. C. Risser J. Bone & Joint Surg. 19 9 5

Lumbarahzation of the first sacral vertebra J Rio SALIDO Med Ibera 1928 an 153 Aches and p tos in the back S K Ray Cal-utta M J 1928 XXIII 186

chir 1028 xxv 616

Low backache and sciatica W A CocheANE Brit [266] Med I 1028 11 606

Roentgenograms in profile and perpendicular roentgenorams of the hip and shoulder MAUCLAIRE Arch francobelves de chir 1927 xxx 679

Congenital axial malformations of the hips L MAR CHAND Preise med Par 19 8 xxxvi 1194 Bilateral pseudocovalgia C P G WARELEY Proc Roy So Med Lond 1928 XXII 5

The treatment of hip joint di ease J J NUTT Am J SATE 1022 V A72

O teo hondromatosis of the hip P TREDET Bull et mem Soc nat dechir 10 8 hy 10 0

Congenital absence of the right femur | RAMSAY J College Surg Australasia 1928 1 247 Foreign body in the knee joint D DEFINE Bol Soc

de med e cirure de S Paulo 1028 xt 118 A case of cyst of the menisci. TAVERNIER and VEY

RASSAT Lyon chir 19 8 vev 640 The prevention of deformities of the knee in arthritis L T Swaim | Bone & Joint Surg 1918 x ,42 12671

Genu varum econdary to meta-epiphy seal ostcomy elitis R Sout Semana med 1928 xxxv 747 A large cyst of the tibia in a man of sixty four years

operation reco ery J DELCHEF Rev dorthop 1928

Primary grant cell tumor of the tibiotarsal articulation Putre and Talbor Lyon chir 1928 xxv 580 a case of internal se amoiditis of the great toe A

Takves Rev dorthop 1918 xxxv 411 Congenital hypertrophy of the big toe Trèves Bull et mem Soc d chirurgiens de l'ar 1028 xx 648

Surgery of the Bones Joints Muscles

Tendons Etc The operative treatment of articular tuberculosis Govz LES Aguitar Arch de med cirug y especial 19 8 1x 293

Results of arthroplasties or reconstructions of ankylo ed Results of arthropiastics or recommendation of points W C Compress South M J 1928 xx1 924 In original te hisque in tendon transplantation ROYLE J Come Courg Australasia 1928 | 115 [267]
Shoulder strap mei ion in houlder surgery MASSART (267) Bull et mém Soc d chirurgiens de Par 928 xx 611 Arthrotomy of the elbow supplemented by se tion of the lateral ligaments and temporary posterior dislocation for the treatment of articular chondromatosis and to facilitate

certain osteosyntheses R Lenicue Lyon hir (267) Volkmann's 1 thæmic contracture treated by trans lantation of the internal epi ondyle H BAILEY Brit

Surg 1928 XVI 335

An operation for making the forearm prehensile after the to s of a hand \ h Hevry Brit J burg 19 8 411 268 O teoplastic interventions on the hip Massagr Bull

et mem Soc d chirurgiens de Par 1929 xx 594 Intra arti ular extra arts ular bone grafts after the re moval of lesions of covalgia developing in the a fult

LERICHE Lyon thir 1928 v v 558

The results of arthrodesis of the hip Descourres and Rician Lyon chir 1925 rev 569

Clanical experien e with tenoplasties on the legs BRANDES Zentralbi I Chi 1928 li 80 [268] The con enative treatment in certain o teo arcomata of the limbs of reduced malignancy ALAMARTINE Lyo ch 1 1923 Itt 5%

Operative lengthening of the femur L C ABBOTT and C. H CREGO Southern M J 1928 Ext 813 [269]

Synovectomy for tuberculosis of the knee TAYERMIER Lyon chir to 8 xxv 571 Tuberculous osteo arthritis of the knee complete func

tional restoration A PERERA Med Ibera 1928 xii 114 Tuberculous arthress of the knee treated by the Robert son Lavalle method tuberculous esterus transmitted along the diaphysis the length of the grafts TAVERNIER Lyon

End results of arthroplasty of the Luce W C CAMP BULL I Bone & Joint Surg 1928 v 82 Giant-cell tumor of the astragalus cured by exci ion followed by roentgen therapy Nové Josserand and L MICHEL Lyon chir 1928 xxv 606

Fractures and Dislocations

Medicolegal a pects of fractures E W HEY GROVES Lan et 19 8 curv 1017

Medicolegylaspects of fractures Brit M J 1028 ii 80c The after treatment of fractures S W BOORSTEIN

Med I & Rec 1928 XXVIII 510 Non union of fractures an experimental and clinical study J F Cowan Ann Surg 1928 lextvni 740 [270] O teo ynthetic treatment of fractures of the dianhyses Itivara bull et mem Soc d chirurgiens de Par 1028

XX 518 I racture di location of the odontoid process. H. C. W. NUITALL Brit M J 1928 H 843

Practure of the clavicle C R MURRAL Sur, Clin \ Im 1928 viii 10,5 The treatment of fractures of the clavicle A MERV E RICCI and A VILLARROEL Pev med de Chile 10 8

lvi 805 Fractures of the elbow through or near the lower eninhysis of the humerus C F LILLINGIRY I Bone &

Ioint Surg 1928 x 57 I ractures of the forearm in the adult C B FRANCISCO

Am M Ass 1928 xc1 542 Ppiphyseal separation of the lower end of the radius of en reduction Corre Lyon har 1928 xxv (or A study of the pathologi al anatomy and the mechanism

of production of fractures of the lower end of the radius C 1 Jiménez Rev míd d Barcelona 1928 v 132 A case of fracture of the neck of the ra hus associated with Juvation of the head. A SEVERI Ann ital dichie 028 VII 858

I racture of the radius by a motor crank with luxation of the head of the ulna through the tegum ats. Rannas Bull et mem Soc d chirurgiens de l'ar 1928 xx 667

Fractures of the metacarpus D Dani Rev med de la Sui se Rom 1928 xlviii, 94 The importante of apparently minor injuries to the pine eport of casis R HAMMOND J Am M 185 1028

XC1 1/10 Compression fractures of the spine P B Oscood New Fingland J Med 1928 cxcix 861 [271 Silent fractures of the vertebræ and their sequela

BERGED Lyon chir 1928 xtv 564
Spontaneous di locations of the hip joint during early
life report of twenty-eight cases V L HART Arch

Surg 1928 v n 58 [271] In operation for the reduction of certain types of con genital dislo ation of the hip I I Swert I Bone &

Joint Surg 1928 x 775 The adaptive changes in the hip in congenital di location and their importan e in treatment \ \LLiso\ J Bone

090

& Joint Suig 1928 x 68, (271)
Operation for old or irreducible congenital dislocation of the hip A B Gill J Bone & Joint Surg 1928 x

300 Fracture of the neck of the femur in childhood P (

COLONNA Ann Surg 1928 INTENTIL 902 The treatment of fra tures of the shaft of the femur E M Townsend Virginia M Month 1928 ly 535 Compound fracture of the femur D C DURMAN

Mi higan State M So 1928 txvi 699 Interarts ular dislo ation of the patella [P Joves

Brit J Surg 1928 x 7 318

An unusual fracture of the femur with knee joint ankylosis P N Jrrson, Am J Surg 1028 v 475
An unusual complication of a S higher-Osmood fracture G CERRITO Ann ital di chir 1928 vii 941

A case of fracture of the tibial tubercle S Repristrix Semana méd 1928 xxxv 410

Middle fracture of the outer malleolus by abduction with tibioperoneal diastasis and outward luvation of the foot MULIUR Bull et mem Soc d chirurgiens de Par 19 \$

An unusual luxation of the astragalus D A Pastratis Semana méd 19 8 xxvv 484

A case of luxation of the cal aneus A PARCELLER and A CREVET Rev dorthop 1928 xxxv 418 Fracture of the calcaneus D DEL VALLE and R E Do ovan Semana med 1029 xxxx 520

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Blood Lessels

The early development of certain cases of nostoperative embolism Decerso Bull Soc d'obst et de gynée de Par 1018 tvu St. Primary thrombosis of the aultary vein a study of eight

cases E P GOULD and D H PATEY But J Surg 1918

TVI OS The relation of the blood platelets to thrombosis after opcration and parturition R & DANBERS F EXELAN and II Evans I Lath & Ba teriol 1928 xxx1 933 [274] The use of foreign protein in the treatment of peripheral vascular di eases. The results of intravenous injections of

typhoil vaccine A W ALLEY and R H SMITHWICE Am M Ass 1028 ter 1161 Pilateral phlebitis of the femoral vem in a surgi ally treated case of biliary lithiasis D DEL VALLE and R E

Do ovan Semana med 029 xxxv 185 Capillary permeability in acute uranium nephritis C.

WHITNEY I Path & Bacter of 1018 xxxi 600 The relation between angioma and trauma O ANDREI

Ar b stal dictor 1929 xxii 10 Artersal encephalography E Moviz Bol Soc de med e cirurg de S I valo 1928 vi 78

Con cutal atresa of the ports ring N PHILPOTP Ann Int Med 1928 to A 2 The surge al study of juvenile gangrene due to chron c

non-syphilitic arteritis P LEIBOVICI Presse med Par tota xxxvi trio

Obliterating arteritis of the lower limbs Rev. m'd Lat 1m tot8 vin 21ot

Periartentis nodosa G F STRONG Canadian VI los 2 28 XIT 52.1 Fal e aneurism of the lase of the cransum due to a

loreion body M Bautrix Rev méd de la Suis e Rom 1028 xlviii 740

Double aneurism of the aorta (of the intraperi ardia) port on and of the descending north; H J b Amaro and A V pr Cro Semana med 1929 xxxx 406 Angurism of the innominate syn hr nous i gration of the

ubclavian and common carot d J F LALDWIN Am J Surg 1928 v 51 Abdominal aneurom death seve teen years and seven

months after operation Sig W WHEELER, Brit M J 1928 11 93 Vari ose vein and vari ose ul ers J House

England I Med 1978 creix 863 Ine present status of the treatment of varicose veins by

injection, L. H. McKirk, Canadian M. Ass. J. 938 xis 5/8.
Theripe tion treatment of various cins. If P. Dav and W. S. Levenson, New En. land J. Med. 9.8 excit. 944. The inje tion treatment of vances F REVY LIPS Lancet 1919 cent 919

The treatment of varicose years and ulers B C TEASLEY HARTWELL and H E TEASLEY I Med As.

Georgia 19 8 xvii, 506

The treatment of varicose by sclerosing injections MENA Arch de med cirug y especial 1928 in 34/ Discussion on the treatment of varicose ul ers by int a venous injections MacLion Sie and Forestier, Gute in and others Proc Roy Sot Med Lond 1928 22.

Vari use veins complications direct and a sociated following the injection treatment a review of the litera are. H O MCPHEETERS and C O RICE J Am 1 455 19 5 XLI IOGO

Blood Transfusion

Secretin not a hamatopoietic stimulant J T kis Arch Int Med 1023 xlm 62

The plasma chol terol and basal metabolism J A GARDYRE and H GAINSBORGU H Brt M J 1928 H 915
The me hanism of blood cognitation. F I've Folha

med 1028 17 310 A method of counts g the thromborytes in man A KRISTE SOV Acta med Scand 1928 bux 227

The histogenesis of the monocyte at the point of its origin from the reticulo-endothelial tissue H Gorvetts Presse med Par 1018 xxxv1 1104

The diagno ti value of a monocytosis II R Durios Indian M Gaz 1028 lain 627 Infe tious mononucleo is H H Shook J Med

C noinnair 9 3 is 422 \ case of acute obloromatous leukamus. R Cosmo

Bol tast d elfa quir 1928 it 440 Ob reations on the crythrocyte W E COOKE But

M J 1928 is 790
Too action of le ithin apon the number and res tance of the red cells in the blood. A GROVBERG & d A LUND-BERL Acta med Scand 928 IXIX 90

The instability in the number of red cells in animais without a spleen L Troito Rev Soc argent de b ! toje iv t s

Erythrocytes in various rheumatic condit ons G Kant METER Med J & Rec 1928 CXX III 467

Erythro edimentation in the endormop thes E Boxtha and A story Ar h de med cirug y especial

19 8 17 164 The red tell sedimentation in leprosy E A MOLINEUS Bol in e de clin our 1028 IV 475

Glo safar sedimentation to leprosy E A Monreal Semana méd. 1928 rury 337 A ranulocyto is R G Striaman Med Cl n \ Am

928 xm 80 Clinical studies upon lactic acidemia Si cari Crescs Arch de med cirug y especial 1918 it 311 [275]

Hamophilia in the tropics B RATTIN Brit M I 1028 11 834

The harmostatic action of sodium citrate and harmophilia E PALMIERI Policim I ome 1928 xxxx sez prat 1817

Hematemesis and purpura splenectomy death from perforation of a duodenal ulcer CRE FREEZER Guy s Hosp Rep Lond, 1028 lxxviii 465 12751 Ġm Malena and purpura splenectomy recovery

(275) Hop Rep Lond 1028 lexviii 460 Preliminary note on a case of hæmstemesis and spon taneous ecchymo es G W RAKE Guy's Hosp Rep

Lond 1028 leven 4.0

The hamorrham diathesis in a child of twelve simulat ing chroni gastric ulcer F W MORTON PALMER Guy's Hosp Rep Lond 19 8 Exxviu 473 Splenectomy in purpura hæmorrhagica (essential throm bor)topama) J S RHAME J South Carolina M Ass

1925 TAIN 247 The diagnosis and treatment of the anomias W W

Duke Ann Int Med 1928 u 463
Angmia of obscure origin T East Proc Poy Soc Ved Lond 1028 vin 1 Sakle-cell anamia M WOLLSTEIN and K V KREIDEL

Am J Dis Child 1928 xxxv1 998 ton on anarma the effect of treatment on intestinal

infection F A KNOTT Lancet 1928 ccav 968 A case of hamolytic non addisonian anamia with hunt enan glossitis and achlorhydna E M B WEST Guy s Hosp Rep Lond 1928 luxum 484

I rimary anamus-treatment with liver fraction G Ginnings J Med Ass Georgia 1928 TVII 480

The diamosis and treatment of permicious anamia L S Mills Canadian M Ass J 1928 tix 546 A case of the hæmogenic type of pernicious anæmia treated by Whipple's method H Movnov Bull et mém

oc med d hop de Par 1928 xliv 1403

The treatment of permicious animum by liver extract A W HARRINGTON Glasgow M J 19 8 cr 320 Liver duet in permicious animum H BERGLUND Ann Int Med 1918 11 471

Liver therapy and animic conditions G Sorce Policlin Rome 1928 xxxv sez prat 1719 The phenomenon of reticulation and the alteration in sue of the red blood corpuscles after liver therapy L S P

DAVIDSON and J G MCLRIE Lancet 1928 ccav 10 4 The blood changes after splenectomy in splenic anæmia purpura harmorrhagica and acholuric jaundice with pecial telerence to the platelets and coagulation W H Evans

J Path & Bacteriol 1928 xxx1 515 [276] Some observations on blood grouping J L Owes Ldinburgh M J 1928 xxxv 222

Observations of blood groups in newborn children in re lation to the parents S Mazza D IRAETA and I I RANKE Bol inst de clin quir 1928 iv 442 The blood groups of the Argentinians and Indians

5 Mazza and I FRINKE Bol inst de clin quir 1928 is

Blood transfusion and the organized service of donors A I RAMOS and M L PÉREZ Folha med 1028 1x \0 4 A new method of demonstrating incompatibility of bloods for transfusion I L YMAZ Per med Lat Am 1028 XIII 2177

Septicarmia due to a hamolytic streptococcus recovery after an immunable transfusion P HEBERT Bull et mem Soc med d hop de Par 1928 xliv 1354

Reticulo Endothelial System

Vanthomatosis and the reticulo-endothelial system cor relation of an unidentified group of cases described as de fects in membranous bones exophthalmo and diabetes insipidus (Christian's syndrome) R S ROWLAND Arch Int Med to 8 th 611

Neosalvarsan and the reticulo-endothelial ystem DE Azta and M J Kuny Pey Soc argent de biol 1028 11 187

Lymph Glands and Lymphatic Vessels

The presence of cholin and adrenalin in the lymph C VIALE Rev Soc argent de biol 1928 iv 180 The relationship of the lymphatics of the right lobe of

the lung to the right paratracheal glands and subclavicular glands H Pouvière Ann danat path 1923 v 743 The lymphatic vessels of the right subphrenic space P SCHLANGER Rev med Lat Am 1028 xiii 2 44

Chylangioma and chyle fistulæ of the lower limbs and external genital organs C KNAPPER Arch f klin Chir

1928 cl 202 The treatment of inguinal adenitis Simon Arch franco-belges de chir 10 7 xxx 08

Roentgen therapy of tuberculous adenitis A FGHIAYAN and E Wyss Rev m'd de la Suisse Rom 1028 xlvm 721 Cute benign lymphocytic lymphadenosis L Dr. MARVAL and E TROISE Semana incd 1028 xxxv 204

The diagnosi of the inguinal adenopathies P Lanzen BERG I resse mid I at 10 8 xxxx1 1104 A case of Hodgkin's disease M LETULLE F TRE MOLIÈRES and J MOLSSOIR Lull et mem Soc med d

hóp de Par 1928 xlm 13 2 A case of Hodgkin's disease with invasion of hone lung and other organs simulating tuberculosi G R WEIGALL and E H DERRICK Med J Australia 1928 u 532

Hod kin's disease after irradiation G A Robinson \m \M Ass 10 8 xct 1548 End results in Hodgkin's di ease and lymphosarcoma

W B COLEY Ann Surg 1928 ICTIVIL (41 Flephantiasis A I I ERTHISTLE and A L GRECO Bnt I Surg 9 S xvi 267

12761 Sar oma and elephantiasis M Emprer Vebraska State M J 1928 viii 412

Typical subleukæmic lymphomatosis with malignant evolution Boint Works and Davoics Eau Bull et mem Soc med d hop de lar 1928 xliv 1330

SURGICAL LECHNIOUL

Operative Surgery and Technique Postoperative Treatment

Sorae detail of pre-operative preparation and of surgical technique M LARGET J P LANGE and L Moreau Press med Par 1918 XXXII 1188 The repur of facial defects A J Aspriant J College curg lustralassa 1928 1 230

The reaction of Farhaeus in general surgery and the effect of anxisthesia operation and the clini al course SANTOS TEJERO 1 row de la clin Madrid 1018 xvi

The effect of surgical operations and of ban laging on re-piration W S LEMON Minnesota Med 1918 xt 25 Vascular suture HARDKE Zentralbl f Chir 1928 lv

Autoplasty of the palm of the hand and the palmar surface of the digits by an Italian graft Moure Bull et mem Soc nat de chir 1928 liv 1084

Abdominal draina e R SCHOCKAERT Bruxelles méd 1915 VIII 1415

The treatment of patients apparently dead from electrical hock F L PEARL F BUTLER and H C STINGS FIELD California & West Med 1928 Yux 340 The po toperative accident G II MURRHY Canadian

M Ass J 1028 XIX 551

Dangers in the postoperative use of insulin E ANDREWS an I k REUTERSMOLD Surg Gynec & Obst 1928 vlvu 605

Antiseptic Surgery Treatment of Wounds and Infections

A note of caution on the use of piene acid solution as a dressin, for burns K G Conquinous Med J Australia 1928 H 652

Some cases of earbuncle R A Stays An Fac de med Univ de Montevideo 1928 xiii 534

In easy method of draining inaccess ble supporating cavities S R Iyer Indian M Gaz 1928 Ivii 626 The effect of by muth violet (hexamethyl para Posamilin

bi muth) on certain pathogenic organi ms preliminary report G R WILKINSON and I S BARESPALE South M J 1928 vu 914 Onychia treated with vaccine J P Hisrivos Brit

M J 1928 11 794

The nucleoproteins in vaccination for abies C Volume and M I Processo Kiforma med 10 8 xliv 1205 Thrombotic septicemin with gangrene A Bovances Lot clin I ome 1928 xxxx sex med 511

Anæsthesia

Fraining of angesthetists in Great Britain C Malove California & West Med 1918 xxix 331
Spinal an exthesia Forgue and Basser I de chir 1028 XXVI 4 3

Studies in spinal and sthesia P B Mcknight South M & S 10 8 xc 745

Spinal angisthesia Bonany Bull et mém Soc d charurgiens de Par 1918 ze 587 A case in whi h death resulted from spinal anesthesis LUPLAT Bull et mem Soc d chirurgiens de Par 10 8 ZX 500 The causes of deaths from spinal angethesia E A PAGH and D H BESSESEN Minnesola Med 1915 E. Avertin and rectal anxisthesia W Assentiz In h J

Surgical Instruments and Apparatus

N Sc 1928 6 s 677

A two way antrum progating trocar and canaula, mobile cations of two other instruments T II Or exeat. Arch Otolaryngol 1928 viii 563 A new nasal douche and aural irrigator R M Courses

Laryngoscope 1018 xxxviii 732 A new nasal brace J SAFLAN Arch Otolaryngol 1918 A new 1 strument for spraying jodized oil into the trube

of conchial tree I W. MILLIER Arch Otolarypgol, to 8 VIII 571 A new splint for finger tip fractures J D Ellis im

I Surg 1029 v co3 A resector for removing a shaped piece of rib cartilage for first tran plant C II lognett Laryngoscope, 7928 EXEVUE 733

An apparatus for the reduction of fracture dislocations

of the cervical spine J F J Ling Am. J Sure 1918 v A new improved cystoscope A RAVICIT Am J Sur-

918 A 100 A cystoscopic lithotate and rongent or foreign body A new lithotriptoscope A RAVICH Am J Surg 1918

v 501 A new irrigating ureteral boughe A Ravice Am J

Surg 1928 v 495 A sum le ambulatory foot splint C R Kerrier Am J Surg 1929 V 304 A club foot brace C R LEPPLER Am J Surg 1928

506

PHYSICOCHEMICAL METHODS IN SURGERY

Roentgenology

The rôle of roentgenology Brit M J 928 11 042 L JACHES Virginia M Roentgen ray diamosis Month 10 9 lv 55

Some physical p operties of fluorescent screens I E Suppress Padiology 1928 xt 424
Minumizing the fire hazards of X ray flus R D

Hones Med Hop 19 8 xxvi 79 A diagnostic error due to unsuspected super out on of roentgenographic dates PERES SONA and SANCHEZ Rev

med lat Am 1925 xiii 2077 Faling roentgenograms of infant H ABRAMSON J Am M Ass 1928 xcl 1546

A verti al roentgenographic unit roentgen exam nation of the head and other parts of the body in the upri ht po-tion S lazar, Am J Roertg nol 19 8 xx 48r I oentgen studies of the bones in certain di cases of the blood and hematopoietic system P G harsiner Am I Poentgenol 1928 XX 433

O teitis fibrosa ard osteitis d formans II R SEER Med J Australia 1928 il 516

Radiotherapy in actinomycosi A U Drajanires [277] Rad ology 1028 ti 32 The control of \ ray therapy in can er I Course. Pol chn Pom 1923 xxxv sez prat 10 9

Radium

Radium treatment of m I gnancy W S \ENCOMET

Med I & Pec 1918 cream 519
Hed I & Pec 1918 cream 519
Herapeut methods and results at radium/remet.
I forsessel. But J Radiol 19 8 1 174
I has al methods of radium application in rectal
and G E Enaley Am J Rochigenel 19 8 25

Some results of t eatment by radium and deep \ 139 the py I J CLENDONEN and H I PRAIGST Med. J Australia o 8 n 530

Miscellaneous

A symposium on physical therapy E R LIND TR and C M GRIS OLD I Lancet 1928 alvau 511

Coordinating the physical therapy department S T Syddicor J Med Soc N Jersey 1928 xxv 692 Abuses of physical therapy in industrial surgery K G HANSSON Internat J Med & Surg 1928 als 532

Physical and biological problems in heliotherapy E A POBLE and R A SAWYER Am J Roentgenol 1929 TT

Heliotherany in extrapulmonary tuberculosis ELIASON Ann Surg 1928 luxxviii 947

Ultraviolet rays and the general public W E Drow and C B Heard But M J 1928 n 642 643 644 [277] Emanations of ultraviolet rays from some organic phos phates after their irradiation C Serono and A Crito

Presse med Par 1928 xxxx1 1158 Skin irntation under ultraviolet radiation S vanS

BIYD Lancet 1928 ccay 10 6

Diathermy J Kowassents 19 8 berlin Springer The lack of accurate pyrometry in treatment with diathermy ACKERMANN Bull Sor dobst et de gynéc de Par 10 8 xvii 761

The present status of diathermy in pneumonia H I STEWART I Med Soc N Jersey 1928 XXV 688

Flectrocoagulation (dirithermy) for a malignant growth of the face P P Larvant Indian M Gaz 1025 1mm Endothermy versus \ ray and radium in the treatment

of neoplastic de eases of the skin and mucous membrane
G A WYETH A lork State J M 1928 XXVIII 1331
The dermatological indications for Souttar's cautery

H C Semon Brit M J 1928 ii \$40
Flectrosurgery F N Kime J Indiana State M Ass 1025 XX1 480

MISCELLANEOUS

Clinical Entities-General Physiological

Conditions Basal metaboli m in normal children from six to twelve

years of age G F klugh I Med Ass Georgia 1928 Ivu 500
Locuse-deficiency symptoms and their significance in animal nutrition and pathology J M IVARD Endo

ennology 1928 xii 530 Dextrocardia and other abnormalities V L FERGUSON

But M J 1928 11 894
A case of tran position of the viscera with tuberculous

pleuns) L G J PITT PAYNE Guy's Hosp Rep Lond 1915 luxun 400 Multiple deformity in an adult native C R STEEL

Brit M J 1918 11 894 Congenital hemiatrophy associated with a linear new us

Tobias Arch Pediat 1928 xlv 673 The modern treatment of warts Ichok Arch de med cirug y especial 1928 ix 366

The influence of industrial poisons upon the different organs Six T Oliver Brit M J 1928 it 835 Crush burns of the hand I MACLURE J College

Surg Australasia 1928 t 233 Ainhum J G Paopsters Ann Surg 1928 lexxsus

Biochemical investigations in allergic conditions H W BARRER and G. H. ORIEL Brit. M. J. 1928 11 880. The metaboli m of galactose. IV. The effect of the

tolerance of the level of o aman activity A W Rows and W McGunvess Am J Olist & Gynec 1918 vvi 63 Hemoglobinum and urticaria an ing from cold K. I HURRIS SER T LEWIS and J M VICHUS BERT M J

1028 # 85c Urtikaria R Hullaw Brit M J 198 is 90 The transition from live to dead the nature of filtrable

viruses A E Boycorr Froc Roy Soc Med Lond 1928 EXH 55 Infection and dial etes S Biloon M M Harris and

I RINGER Med Clin \ Am 928 RH 835 Late posttyphoid abscess C H 18\01D California

& West Med 1928 XXIX 335
Juvenile gangrene W Martin and B R SHORE Ann Surg 1928 ltsx 111 725

An unusual distribution of peripheral gaugrene in a case of subscute bacterial endocarditis M FINLAND and D

DAVIS \ \text{very Logland J Med 19 S cacix 1019}

Raynaud s syndrome M \tag{LTRALPE and B B Spota
Rev de especialidades \ \text{soc mfd argent 9 S n 18S}

The treatment of gangrene PEYRI Arch de med cirue y especial 19 9 17 363

Ulcer cruris the etiology patho enesis and treatment H O McPhreiters Surg Cynec & Obst 1928 thin The non genetic appearance of va lous types of neoplasia

in experimental animals L C STRONG J Cancer I e search 1928 XII 09 An external teratoma E. L. GALGUT Brit M. J. 1028 11 937

A contribution to the stu ly of tumors of the digits of tle hand F I Texozzi Ann ital di chir 1928 vii 992 A connective to sue tumor of the soft parts of the hip

Pollosson and Crevssel I you chir 10 8 xtv 60% Cure of a melanotic epithelioma of two and one half years duration after surgical treatment and roentgen

ray therapy BERARD and DUNET I you chir 1928 XXV 566 The world wide campaign against cancer M DuBors Rev med de la Suisse Rom 1028 xl 111 08

Periodi al examinations as an aid in the prevention and early recognition of cancer and other d seases J C BLOOD GOOD Pennsylvama M J 1928 xxxii Health examinations in cancer control T \ FAUGUT

Med I & Rec 1928 exxvm err Study on can er Baineringe Pull et mem Soc d chirurgiens de Par 1928 xx 597

Single trauma carcinoma and workmen a compensation J M WAINWRIGHT Am J Surg 1928 v 433

A second result of experimental studies upon the emery odental etiology of cancer & HEVANA Bruvelles mid 0 S VIII 1542

Martens reaction in the diagno is of malignant tumor M SILVAGNI Policlin Rome 1928 xxxv sez prat 1773 The p esent status of the diagno is and treatment of cancer H C Saltzstell J Michi an State M Soc

1928 XT+11 Of Cancer to what extent does medical treatment influence the progress of this disea e O B LEF Texas State [M

The treatment of patients with inoperable cancer R B

WILD Lancet 19 8 ccx1 1062 Collo dal lead in the treatment of cancer \ J SCRIVO and I I ozzt Semana méd 1928 txts 4'8

Collorial lead treatment for moperable cancer L S Billock South M & S 1929 xc 43

The treatment of inoperable cancer by the injection of a colloidal preparation of various metals-bi muth lead copper J L Jona Med J Australia 1928 11 587

The treatment of malignant neopla ms with colloidal lead. D 5 Perronn and J D Lunson Am J Roent genol 1928 xx 450

What should be the surgical attitude towards the treat ment of advanced can er cases? J T Moorg Texas State

What should be the surgical attitude towards the treat
more of advanced can er cases? J T Moorg Tenas State
J N 1928 Cus 4 4
A case of leucosar omatosis O Heaste. Med J &
Rec 192 Cut II 53

General Bacterial Protozoan and Parasitic

Histamine and infection G M Fr DIA1 J Path Bacteriol 1928 xxxi 633 [278] A case of anthrax with mal grant pustule and fatal

hemorrhagic meningitis D Ellis Guy's Hosp Rep Lond 19 5 lyryin 464 Malta lever 1 II Stewart Umpesota Mel 1928

NI 753
Biccilus proteus infections J I Taylor J Path &

Ba tenol 1918 exc 8)
A wavey of the inculence of hydatid disease in the herbitors and porcines of Victors A. H. Fareier and J. S. Panose Vird J. Justialia 1978 in 640.
A case of rapid death from hydatid shock in a child

A case of rapid death from hydrid shock in a child of seven cars. M. P. Da Plitano, Mc I. Ibera, 1928, 21, 231

A case of staphylococrima of erysipelatory type T RATHER and M RUDOLF Bulk et mêm Soc mêd d hôp de Par 1928 xliv 1 69 The rôle of strepto occi in experimental poliomyelitis of

the monkey P H Love P K Olitsky and F N
STEWART J Evper Med 1918 rhun 45t [278]
Septicamia due to the nu rococcus tetra-enus G

CHISBRERA and U REITAN I Jolichin Rome 1928 xxv see prat 1775

Tulanomia E Francis J 4m M Ass 1928 xxi

1155 Tularemia a ca e report. A J Reduced Mil Sur geon 1028 hun 14

Tularamia (francis disease) experiences with fifty three cases o curning in Diyton Ohio W M Simpson Wiscoman M J 1928 trivin 481 Tularamia (francis disease)—report of four additional

cases W. M. Sturson. Ohio State W. J. 1928 x 19 860. Experimental actinomycos s. B. Busons. Arch ital dichir 1928 xxi 5 9. In attempt at revision of the bouth. Imen an blasto-

An attempt at revision of the bouth American blastomycoses O Oliveira I iberro pa Pouseca Bol inst de clin quir 1928 in 469

The treatment of a case of blastomy osis \ Prino and
Therema Bol so de med e cururg de S i aulo 19 8
xt 144

Bla tomycosis and its treatment by anti-eptics. A Pero Bol Soc de med e crurg de > I aulo 19 2 x 144 Intestinal protozoa J V Birron California & West Med 1918 xxet 303-

The geographic distribution of let hman osis in Argentina V E Brandscont Bol inst de clin quir of 1 32 Cutaneous leishinanissis with Solited localization and unit ual development V Brandscont Bol inst d lin

quir 10 W 334

Vegetating cutaneous leishmaniat s with vic ral localiza
tones R & Borzo E Bol inst de l'r qu 192º w
320

Polyps due to Ieishmaniasis M O De Reexon. B). Soc de med e curirg de S Paulo 1928 zi III Two human cases of rabies T B Rice J Am M Ass 1928 zej 1621

A case of rat bite fever R C Stewart Canadan M Ass 1 1925 six 575

Balantidium coli in Uruguay E G Vocital c and R V Turet Bol inst declin our in S iv 221

Ductless Glands

Studies of the endocrine glands IV. The male and female gonads: A W. Rowe and C. H. Laurence. Endocrinology 19-8 xii 591

Acromerally with amyotrophic lateral sciences C. Worster Drot Gur. Proc. Roy. Soc. Med. Lond. 19 8 viii. 1

The differential chamnosis between hypothyroidism and

hyposuprarenalism A E Koeffee J Am. M As. 1933 x 1 145

The thypous as a factor in severe forms of Easedows disease C C Males Internat J Med & Surg 19 8

xh 540 Surgical Pathology and Disgnosis

The pathological anatomy of tuberculous P Hitz scream 1928 Berl a 'pringer The microscope si de precipitation test for syphil... pr luminary report on its use in Austra in T Hugurov

Med J Australia 1928 in 621 Unsu pected filana detected in serum form a stylubic chancer and of served by the dark ground illumintor G R Hastirov Med J Australia 192 in 650

Experimental Surgery

The syne gistic action of cestrin and pilituary extracted the isolated uterus 1 H Boune and J H. Bran Lancet 1918 cvv 1020

The effects of irradiate legosterol in large dosts M. E. Dixico and J. C. Hovitz. Brit. 1. J. 1938. u. 8 a. Experiments in plutting the repensation limb bod. F. H. Swerr. Anat. Record. 1938. 21. 39. I. sperimental free fast transplantation in tological Endings. A. Hinse. Besti. z. path. Arst. u. a. all., Jath. 19. 8. ing. A. Hinse. Besti. z. path. Arst. u. a. all., Jath. 19. 8.

Hospitals Medical Education and History

रेक्ट्राय ४०३

bean landication of the twenty five to thirty 6 elect ho pital I. A Wes- 3 Lat M Ass 1928 xx 185 flow an we reduce the ho pital expenses without our

ta ling its services? L (Warlick, J. Nat. V. 538, 19.8 at 187 Surgical education and surgical practice in the future

But M J 1918 u 89
The ter hing of obstetues P Tradition Am J Ob 1 &

(syn 1928 vt 611 Ulutetrus and gynecology in public health program. J () ITZENDERO J An M Sss 19 8 zd, 15¹⁹. The heginnings of the I terary renaissance of surgery in England Sir D 4 I ower Froc Roy Soc Med. Lowel,

9 % xxts 7
The lure of medi al hi tory—Malpighi and Lecunts hock W Dock California & West Med 1926 xxxx 513

International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

EDITORS

FRANKLIN H MARTIN, Chicago
SIR BERKELEY MOYNIHAN KCMG, CB Leeds
PAUL LECENE, Paris

SUMNER L. KOCH, Abstract Editor MICHAEL L MASON, Assistant Editor

DEPARTMENT EDITORS

EUGENE H POOL General Surgery
FRANK W LYNCH Gynecology
JOHN O POLAK Obstetries
CHARLES H FRAZIER Neurological Surgery
F N G STARR Abdominal Surgery
CARL A HEDBLOM Chest Surgery

LOUIS E SCHMIDT Genito-Urinary Surgery PHILIP LEWIN Orthoped e Surgery ADOLPH HARTUNG Roentgenology HAROLD I LILLIE Surgery of the Ear L W DEAN Surgery of the Nose and Throat ROBERT H 11/Y Plasic and Oral Surgery

CONTENTS

I Index of Abstracts of Current Literature

11	Authors	1%
111	Editor s Comment	×
ΙV	Landmarks in Surgical Progress	305 307
v	Abstracts of Current Literature	308 381
VI	Bibliography of Current Literature	382-406

Editorial Commun cations Should Be Sent to Franklin H. Martin Ed tor 54 East Ene St. Chleago Editori I and Business Officers 34 East Frie St. Ch. cago Illinois U.S.A. Publisher for Great Braikin 1 Balli e e Tindall & Cov 8 Henrietta St. Covent Garden London W. C.

The treatment of malignant neoplasms with colloidal lead D S PULFORD and J D Lanson 1m I Roent genol 1928 Tr 450

What should be the surge al attitude towards the treat ment of advanced cancer cases? J T Moore Texas tate J M., 1928 XXIV 4 4 A case of leurosarcomatosis O Hansel Med J & Rec 1928 CXXVIII 525

General Bacterial Protozoan and Parasitic Infections

Histamine and infection G M PINDLAY J Path Racteriol 1928 xxvi 633 A case of anthrax with malignant pustule and fatal hæmorrhagic meningitis D Lilis Gu) s Ho p Rep

Lond 19 8 Ixviii 464 Malta fever A B STEWART Minnesota Med 1928

X1 753 Bacillus proteus infections J F Taylor J Path & Battero! 10 8 xxxx 807

A survey of the mer fence of hydatid disease in the herbi vora and porcines of Vi tona VII FAIRLEY and J S

PEVROSE Med J Australia 1928 ii 640 A case of rapid death from hydatrl shock in a child of seven years M P DE PETL TO Med Ibera 1028

I case of staphylococemia of eryapelatory type I RATHERY and M. RUDOLF Bull et mem So med d hon de Par 1918 xlm 1369

The role of streptococci in experimental policimvelitis of the monkey I H Love I k Oursky and F W STEWART J Exper Med. 1918 xlvm 431 [278. [278] Septi æmia due to the micrococcus tetrageniis G CHIABRERA and U REITANI Loliclin Rome 1928 xxxv sez prat 1775 Tulatærnia E Francis J Am VI iss 1928 xci

Tularemia a case report A J Redlind Mil Sur

zeon sqr lxtti 715 Tulacomia (Francis disease) experiences with fifty three cases occurring in Dayton Ohio W M Starson Wisconsin M J 1918 xxvii 481
Tularamia (Francis d sease)—report of four additional

ca es W M Simpson Obio State M J 19 8 xxiv 960 Experimental actinomy cosis B Barovi Arch ital di chir 1024 XX 520

An attempt at re ision of the South American blastomycoses O OLIVEIRA RIBEIRO DA FONSECA Bol inst de clin quir 1928 tv 469

The treatment of a case of blastomy costs I PR 10) and T SILVEIRA Bol Soc de med e cirurg de S I aulo 1928 Blastomycosis and its treatment by antisepti s A

Pero Bol Soc de med e cirurg de S Paulo 028 to 144 Int stinal protozoa J V Barkon California & We t Med 1928 TALE 303

The geographic distribution of les hmaniosis in Argentina V E LERNISCON Bol inst de clin que 19 % in 325 Cutaneous leishmanis is with isolated localit, tion and unusual development \ BLRNISCON Bol inst d lin Quir 1928 IV 334

Segetating cutaneous leishmania is with isce allocaliza tions R A Borzove Bol inst de clin quat 928 it

Polyps due to leishmaniasis M O De Rezero Rol. boc de med e cirurg de S Paulo 1928 zi 111, Two buman cases of rabies T B Rice I Am M Ass 1928 xc1 1611

A case of rat bite lever R C STEWART Canadian M Ass 1 1928 YX 575 Balantidium coli in Uruguay E G Vocetsing and R & TALICE Bol inst de clin quir 1928, tv :

Ductless Glands

Studies of the endocrane glands IV The male and female gonads A W Rong and C H Lingever Endocrinology 1928 xu 591

Actomeraly with amyotrophic lateral sclerosis C. Worster Drotcher Proc Roy Soc Med. Lond. 19 3. The d fferential diagnosis between hypothyrodim and

hypo uprarenal sin A E Koenter J Am 3! Ass. 1928 XCI 1457 The thymus as a factor in severe form of Basedo A disease C C Miller, Internat J Med. & Surg 1) &

xh 540 Surgical Pathology and Diagnosis

The pathological anatoms of tuberculosis P Hitzs SCHWANN 10 & Berlin Springer The microscope slid p ecipitation test for syphilis preliminary report on its use in Australia T liminary

Med I Australia 1928 u 621 Unsuspected filana detected in serum form a sypt in chancre and observed by the dark ground illumina es GR HAMILTON Med I Justralia 19 8 u 656

Experimental Surgery

The synergistic action of cestrio and pituitary extract on the solated uterus A W BOURNE and J H. B TV Lancet 1018 ccxv 1020

The effects of irradiated ergostero) in larve doses W.E. Dixov and J (Hovie But M J 1928 a 527 Experiments in plitting the regenerating land but F H 5wert Anat Record 1928 at 292

Experimental free fat transplantation histological fied in s A Hrise Beitr z path Anat u z al! Path 1925 1xxx 502

Hospitals Medical Education and History

Standardization of the twenty file to thirty five bed hospital L 1 West J N t M 4ss 1929 xx 18

How can we reduce the ho pital expenses rubout cur
tailing its services? L G \ 2 lick. J \ at M 4ss 1928

T 181 Surgical edu arion and surg al pra tice in the future Brit M J 928 ii 807 The teaching of obstetrics P Fixpigi Am J Olst &

Cyn c 1928 AVI 61

Obstetrics and gynecology is public health program

J C LITZENDERG J Am M \ 5 1918 rct, 1597

The beginnings of the literary renaissance of surgery in Lu land Six D A Pol ER I oc Roy Soc. Med. Lond 0 4 x 11

The lure of medical fustors-Malpighi and Lecuwen hork W Dock Caldon a & West Med 1928 xxx 333

CONTENTS-APRIL 1929

LANDMARKS IN SURGICAL PROGRESS

NATHAN SMITH AND OVARIOTOMY Herbert Thoms M D F A C S New Hoven Connecticut

ABSTRACTS OF CURRENT LITERATURE Neck

tread		upon Experimental Hyperthyroidi m in Man	312
MCLEERY J A and BERRY T B A Study of 520 Cases of Fractures of the Skull BROW, R C Cramoplasty by the Spht Rib Victoria LEDERRY F L Prosthetic Aids in Reconstructive Surgery About the Head 1 resentation of a New Method	309 309	upon Experimental Rypernsyroun and an Auto- MCLLILAGE E P The Farathyroid Clands Their Relationship to the Thyroid with Special Reference to Hyperthyroidsin Liouser F \(\) and Scinkeder L \(\) Laryngeal Puberculosis A Study of soo Fatients Treated at the Maryland State Sanatorium from 1923 to 18 Sept.	312
Eye Kooiv I II Perforating Lye Injuries of Young	200	Thomson Sig 5T C Intrinsic Cancer of the Larynt Operated on by Laryngofissure Immediate and Ultimate Results	313

300

300

310

310

210

310

310

310

110

311

SURGERY OF THE NERVOUS SYSTEM Beam and Its Coverings Cranial Nerves

30.

315

317

317

The I ffect of Iodine

309	ARMOUR D Some Considerations on Head Injuries	314
	SYMOODS C P The Differential Diagnosis and	
309	T eatment of Cerebral States Consequent upon	
300	Head Injuries	314
	GRAFF E L A Case of Congenital Cerebral	

Aneurism 315 Mt Sgo D Cranial and Intracranial Damage in the Newborn 3 0

Sympathetic Nerves

on Tonus

OCHENER A

Traches Lungs and Pleura

CARSON 1 and DOCK W

LERICHE R and LONTAINE R In Experimental and Chuical Contribution to the Question of the Innervation of the Vessels 315 PULTON I F Vasomotor and Reflex Sequelæ of Unilateral Cervical and Lumbar Ramisectomy in

a Case of Raynaud's Disease with Observations SURGERY OF THE CHEST

Chest Wall and Breast							
Relation to Cancer of the Breast	Ma titis—Its	317					

OCHSNER \ Passive Te the Roentge	Bronchogs hn que T enologist	aphy he Me	Accords thod of	ng to Choice	the

STOVALL W D and GREELEY H 1 Broncho 333 mycos s

HARTER J II Chronic Suppuration of the Maxillary Sinus Including Oral Fistule Operative Cure Michaecon G W The I ormation and H: tological Structure of Cysts of the Maxillary Sinus

WEEKS W W The Technique of the Motais Opera tion for Pto is

Head

WIENER M The Correction of the Defect Due to Third \erve I aralysis SMITH L R Concomitant Strabismus and Heterophona

DUGGEN J \ A Case of Rhino poridium Kinealyi BERGHALSEN O Tuberculin Therapy in Ocular Tuberculosis CIFFORD S R Some Modern Preparations Used in

SURGERY OF THE HEAD AND NECK

the Treatment of Glaucoma Wolfr E A Large Implantation Cyst of the Conjunctiva

Chou C H A Typical Form of Familiar Degenera tion of Cornea (Fleischer) DERBY G S The Nature of So-Called Loeppe Andules

CHANCE B 1 Case of Sarcoma of the Iris lorne C. A. A Cas of Primary Melanosarcoma of the Ins CLER 1 Bilateral Obstruction of the Central

Retinal Arteries 317 CBSL C II Angiopathia Retinæ Traumatica (Lurtscher) With Some Remarks on Ligment Migration 3 1

Sitte, R Surge at Technique to the Removal of Subretinal Cysti ercus

Nose and Sinuses

111



Cusconizatio M Ja Hyperplasia of the Endo-		Miscellaneous	
metrum with a Report of Cases Gelff M J A Review of Various Methods of Treatment of Carcinoma of the Cervix Atten	40	HARN M The Treatment of Syphilitic Mothers and Children in Welfare Stations	350
dant Primary Mortality and Five Year Cures	340	GENITO URINARY SURGERY	
Adnexal and Perinterine Conditions		Adrenal Kidney and Ureter	
Orru O Intra Abdominal Bilateral Ovarian Higmorrhages	340	Ramos \ P Congenital Ectopic Kidney as a Tumor Prævia in Labor	349
		WESSON M B Pyclography GIBSON A G Lychtis and Pyclonephritis	351 351
External Genitalia		CROSBIE A II Pyelonephritis	352
Norris C C and Kimbroton R A Jr Relata tion of the Anterior Vaginal Wall	341	RUDNICK D F Bilsteral Renal Tuberculosis Find Stage with Sclerosis and Calcification	35
Miscellaneous		TROELTZSCH J Albuminous Stones in the Renal	
ZONDES, B and ASCHHEIM S The Hormone of the		I elvis Attempt at Their Histochemi al Decom position	352
Antenor Lobe of the Pituitary Gland Its		Cumil G I and Gile II H Calculous Anuna	353
Preparation Chemical Properties and Biological Effects	341	CAMPBELL, M F Ureteral Obstruction in Inlancy	353
Dairs D G and FORD F A Irradiation of the Ovaries and Hypophysis in Disturbances of		Correy R C Transplantation of the Ureter into the Large Intestine	353
Menstruation Miller C J A Comparative Study of Certain	342	Bladder Urethra and Penis	
Gynecological and Obstetrical Conditions as Exhibited in the Colored and White Races	342	PRONTZ W. A Submucous Fibro is (Localized Cystitis)	353
WARD G G The Treatment of Pelvic Infections	343	CABOT H Stone in the Bladder	354
CLUTE H. M. Cystocele at Middle Age Treated by the Interposition Operation	343	Hunt V C The Surgical Treatment of Malignant Tumors of the Bladder	354
FRUHINSHOLE A The Indications for Operation in	210	Davis D M Epi padias in Females and Its	334
Cases of Lutein Cysts Associated with Hydatidi Iorm Mole	344	Surgical Treatment	354
7.010	3++	ANDERSON A E Stricture of the I emale Urethra	355
OBSTETRICS		Genital Organs	
Pregnancy and Its Complications		Gonorrhox by Inducing Aseptic Abscess	353
Ltxpwall, k. The Reaction of the Body in Pregnancy	345	Young H H Medical and Surgical Frohl ms in Prostatic Obstruction	355
ELYMPIE H and BADER C W The Function of the Liver in Pregnancy I Storage of Dyestuffs		RETTERFR F and ALEXANDESCU G Structure of Testicular Grafts I our Years and Five Months Old	
in Pregnancy Schoesic A Estimations of the Calcium in the	346	ON	355
Blood Serum of Mother and Child	347	Miscellaneous	
Straphkorr M and Morosova 1. The Calcium Content of the Blood at Different Stages of I regnancy and in Tou oses and Puerperal Distases		HISMAN F The Surgical Treatment of Lower Tract Tuberculosis Genital and Vesical	356
DAVIDSON A M The Use of Morphine in Eclamp	347	SURGERY OF THE BONES JOINTS MUSC	LES
Sia	348		
Labor and Its Complications		Conditions of the Bones Joints Muscles Tendons	
Rigos 1 P Concental Ectoric Audies as a		HUEBLER O Acute O teomychtis in Childhood MENSOR, M. C. Isolated Tuberculosis of the Carpus	357
Figures W and Jones S. S. Remonal Appethesia	348	-Its Durmosis and Treatment IRRUNN E. Early Roentgen Lesions of Covalna	357
		and Osteo hondritis of the Hip	357
PITEIN, G. P. and McCornack F. C. Controllable Spinal Anaesthesia in Obstern 3	349	GIACOBBE C Therapeutic Preumarthro is in Intra Articular Lesions of the knee	358
Newborn			
		Surgery of the Bones Toints Muccles Tours	
MCVRO D Cranial and Intracrunial Damage in the Newborn	350	Surgery of the Bones Joints Muscles Tendons Kerschner M. Operative Immol dization in Vertebral Tuberculosis	Etc 359

ıv

ARCHBAID E W The Selection of Cases of Palmonary Tubervilosis for "urgical Intervention Tinkake W H. Surgical Operations in Pulmonary Tubervilosis III Surgical Operations in Pulmonary Tubervilosis Course E C The Experimental Production OUTSE E C The Experimental Production OUTSE E C The Experimental Production of The Experimental Study Pulmonary Abscess—the Experimental Study Pulmonary Abscess—the Experimental Study Private M Wilder M Judo E S Wooze A B and Wilder R M Outge in the Treatment of Postoperative Bronchopperimonia	318 318 318	FORTER, W. C. Intestinal Obstructions. The Corr- lation of Recent Experimental Studies and Clinical Applications Orr T. G. and Harden R. L. The Tessims of Intestinal Obstruction McIver M. A. and Charter, J. L. Body-Flud. Changes Due to Upper Intestinal Obstructions Mostrow J. J. and Straters S. J. The Relation of The Conference of the Computer of the Computer of Intestinal Obstructions on the Toursens of Intestinal Obstructions on the Toursens of Intestinal Obstructions of the Small Intestinal Intestinal Processor J. And Eser. R. R. Dillation of the NEVOLULUS T. And Eser. R. R. Dillation of the	331 331 331 331 331
Heart and Pericardium		Duodenum or Chronic Obstruction of the	
KARN M H and BURSEY J Angina Pectoris A Clinical Analysis of 200 Cases	310	Duodenum Congenital in Ongin PEVDERGRASS R C Duodenal Divertivala GOLDEN R Non Malignant Tumors of the Puodenum	312
Œsophagus and Mediastinum		HALPERN J The Pathogenesis and Treatment of	***
CAMPIN A Strictures of the Esophagus from Lye Poisoning		Pepti Ulcer of the Jejunum	333
MOLLISON W M Dysphagia Due to Pharyngeal	320	CAMP J D Jejunal and Gastrojejunal Ulcer and Their Associated Roentgenological Signs	333
Paralysis	321	PORZELT W Perforated Peptic Ulcer of the Jejun	
BLOOM C. J. An Intensive Study of the Thymus	321	um Following Perforation of an Ulcer of the Duodenum	334
		CANCELMO I I Carcinoma of the Jejunum	334
SURGERY OF THE ABDOMEN		DEVINE H B Colon Surgery in the Debutated	334
Abdominal Wall and Perstoneum		DUMBADZE D Chronic Appendicitis in Children	111
***************************************		TELLOWS H H What Is a Chronic Appendix?	335
Sozon Jarosevic Bobrov Steelin Kamosky and Others Discussion on Radical Operations for Inguinal and Temoral Hernie and Their End		Bychovskij G The Question of Rectal Car inoma Liver, Gall Bladder Pancreas and Spicen	335
Results	322		
ANDREWS E Fur her Experiences with Purely	325	WANGENSTEEN O. H. The Hamorrhagic Diathesis of Obstructive Jaundice and Its Treatment BOCKUS H. L. and GERSHOV COREY. J. Simultane-	536
I ascial Herniotomy SHORT A R Symptoms Due to Mesentenc	326	ous Non Surgical Drainage of the Gall Bladder and Intravenous Chole ystography	36
Lymphadenitis Descourres L and Ricago A Cysts of the	326	FEINBLATT H M The Infrequency of Primary	,36
Mesentery	326	Perratages Amorbi Chole venities The Presence of	-
Gastro Intestinal Tract		Amorbae in the Pus of Purulent Calculous	317
		Cholecystatis	337
RICLER L G Roentgen Observation of a Benign Tumor of the Stomach Prolapsing through the Pylorus	327	FOFTNOER H and Baner C W The Function of	
Sinces H A and Dyas F G Syphilis of the Stomach, with Special Reference to Certain		in Pregnancy	345
Diagnostic Criteria	327	Miscellaneous	
BROSTER L R Gastric and Duodenal Ulcer	327	Court I Personal Experiences in Abdominal	
WALTON A. J The Results of Surgical Treatment of Gastric and Duodenal Ulcer	325	Surrencal Emirg notes	353
Solkov B and Line S. Ulcer of the Stomach and Duodenum After Gastro-Enterostomy for Such		LeWard L T The Roentgenological Diagnosis of Diaphragmatic Hernia	328
Lesions	323		
Converge b. The Early Recognition and Treatment		GYNECOLOGY	
of (ancer of the Stomach	328	Uterus	
FREEMAN L Partial Gastrectomy for Peptic Ulcers		The Desemble Value of Colpos	

39

329

Coincident with Lymphosarcoma of the Storn

HURST A I TRe ent Advances in the Treatment of

ach Recovery

Gastin Diseases

Function of of Dye tuffs 345 Abdominal 353 Diagnosis of 335 HINSELMANN H The Diagnostic Value of Colpos 342 copy Massov J C and Stuov H E. Fistals of the 340 Uterus

FORSELL C Therapeutic Methods and Results at

LACASSIGNE A The Direct and Indirect Action of

MISCELLANEOUS

Clinical Entities-General Physiological Conditions McCullagh E P The Parathyroid Glands Their

Relationship to the Thyroid with Special Reference to Hyperthyroidism

Morran J C The Action of Radiation on the Blood Supply of Tumors

Wood F C Cancer Biology and Radiation

Radiation on Cancer Tissues

Radium

Radiumbemmet

INTERNATIONAL ABSTRACT OF SURGERY

375 378

375

3 Ó

312

375

of Medicine WOOD F C Cancer Biology and Radiation STURM F The Simultaneous Presence of Recent Foci of Tuberculosis and Di seminated Carci noma Metastases

TRANCIS I BARONT R

Tularæmia Experimental Surgery Histological Findings

General Bacterial Protozoan and Parasitic Infections TAYLOR I F Ba illus Proteus Infections Experimental Actinomycosi GRUZDEV V Injuries from Colored Pencils

MARTIN W and SHORE B R Juvenile Gapgrene

BARBER H W and ORIEL G H A Clinical and

Broch mical Study of Allergy

379 78o 380 HILSE A Experimental Free Fat Tran plantation

381 38r

vii

377

178

178

379

350

360

360

161

361

162

362

363

163

364

165

357

347

347

369

of the Tibiotarsal Joint.

Fractures and Dislocations Patterson R H The Internal Fixation of Fractures and Dislocations by the Use of the

Human Fascial Suture RAVDIN I S and MORRISON M E Ossification

After Fracture \n Fxperimental Study PUTTI V Statistical Research on Joint Fractures Complete Statistics on the Fractures Treated at the Rizzoli Institute in the Period from 1899 to

1026 ZANOLI R Fractures of the Upper End of the Hameens

CAMURATI M Fractures of the Elbow SOLDI 1. Fractures of the Wrist

DESSAINT J A Case of Avulsion of the Spinous Process of a Cervical Vertebra MUTEL and DEFOUG Irreducibility Due to the

Interposition of Soft Parts in Congenital Dis location of the Hin HASS J The Lorenz Forking Procedure and Its

Lield of Application Dust E Fractures of the Neck of the Femur Zanore R Fractures Involving the knee FALDINI G Fractures of the Malleoli

SURGERY OF BLOOD AND LYMPH SYSTEMS

Blood Vessels IULER F Bilateral Obstruction of the Central

Retinal Artenes GRAFF E L A Case of Congenital Cerebral Aneurism

LERICHE R and FONTAINE R An Experimental and Clinical Contribution to the Question of the Innervation of the Vessels

315 LEMANN I V Coronary Occlus on in Buerger s Disease (Thrombo-Augutis Obliterans) 367 BROOKS B BLALOCK A and formsov G S Liga

tion of the Terminal Abdominal Aorts Experimental Study LOPTON CORNWALL V and PONDER C W Exten

sive Pulmonary Embolism Following Fracture PETITPLERE M Embolectomy on Arteries of the Extremities Collective Review and a Report of Twelve New Cases

Blood, Transfusion

SSERDILAOFF If and Moscoota, 4 The Cal ium Content of the Blood at Different Stages of Pregnancy and in Toxicoses and Puerperal Diseases

Estimations of the Cal jum in the SCHOENIG A Blood Serum of Mother and Child HEUSSER H Postoperative Chang 5 in the Blood

and Their Importance in the Development of 308 Thrombosis

HELD I W and GOLDBLOOM A A Fundamental Principles Governing the Chinical Interpretation of Hamatological Diseases

Lymph Glands and Lymphauc Vessels SHORT A R Symptoms Due to Mesentenc

Lymphadenitis KNAPPER C Chylangioma and Chyle Fistula of the Lower Limbs and External Genital Organs 370 350 Gow A E Some Disorders of the Lymph Glands at

End Results in Hodekin's Disease SURGICAL TECHNIQUE

1 1

130

217

351

357

port of a Case with a Review of the Literature 3 0

Operative Surgery and Technique Postoperative Treatment

CUTLER E C The Experimental Production of Postoperative Vbs ess of the Lung BINCES M W JUDO E S MOORE A B and

Names R M Oryg n in the Treatment of Postoperative Bronchopneumonia Antiseptic burgery Treatment of Wounds and

Infections ALLEY A W and WRIGHT I S The Bacten was Properties of the Solution ST 37 (Liquor

Herylresorcinolis 1 1 000) RICE T B Bacteriophage in Suppurative Condi 373 tions

Anasthesia

COLEY W B

and Lymphosarcoma

PITED G P and McCornack, F C Controllable 311 Spinal Anasthesia in Obstetrics

LICKLES W and JOVES S S Regional Anasthesia 3 5 an Obstetnes HORNOR LP and GARDEAGER C & A Means of

Intercepting Explosions in Anasthetics 3 3 ROMBERGER F T Chencal Studies and Chem al : 4 Analyses of Rebreathed Mustures

PHYSICOCHEMICAL METHODS IN SURGERY

Roentgenology EVER A Bronchography According to the Passive Technique The Viethod of Chace for 307 OCHSYER A

the Roentgeno ogist Roentgen Observation of a Benign 167 RICLER L G Tumor of the Stomach Prolapsing through the

Pylorus BUCKLS H L and GERSHON COHEN I Simulta

neous Non Surgical Drainage of the Gall Budder 1,6 and Intravenous Cholecystography LEWALD L T The Roentgenological Diagnosis of 338

Diaphragmatic Hernia DRIPS D G and FORD P A Irradiation of the

Oranes and Hypophysis in Disturbances of Menstruation

Wessoy M B Pyclography

IRRUSA E Early Roente a Les ons of Coralga and Osteochondritis of the Hip

SEAR H R Ostertus Fibrosa and Ostertus Deformans

AUTHORS OF ARTICLES ABSTRACTED

AUTHORS OF ARTICLES ABSTRACTED

Alexande cu G 355

Allex 4 W 323

Allex 4 W 323

Allex 4 W 323

Allex 3 W 325

Allex 4 W 325

Allex 4 W 325

Archard Mf E W 318

Archard E W 318

Archard Mf E W 318

Archard W 317

Baron B 360

Barber H W 327

Benger M 307

Frequent Mf 327

Baron B 360

Barber H W 327

Brench Mf 327

Brench Mf 327

Brench Mf 328

Brench C 320

Led Ter F I 326

Led Ter F I 327

Schoening A 347

Schoening

BIBLIOGRAPHY

Surgery of the Head and Neck		Genito Urmary Surgery	
Head Pyc Tar Car Nose and Smuses Mouth Haryax	382 382 383 383 383	Adrenal Ludney and Ureter Bladder Urethra and Penis Genital Organs Miscellancous	397 397 397
Neck	353 384	Surgery of the Bones Joints Muscles Tendon	15
Surgery of the Nervous System Brain and Its Coverings Crainal Acrees Spinal Cord and Its Coverings Feripheral Acrees Sympathetic Nerves Mir cellaneous	384 383 385 381 383	Conditions of the Bones Joints Muscles Tendons Etc Surgery of the Bones Joints Muscles Tend n Etc Practures and Di locations Octhop dies in General Surgery of the Blood and Lymph Systems	401 400 400 30g
		Blood Vessels	491
Surgery of the Chest		Blood Transfusion	432
Chest Wall and Breast Traches Lungs and Pl ura Heart and Pencardum Esophagus and Mediastinum Miscellaneous	385 386 386 386 386	Lymph Gland and Lymphatic Vessels Surgical Technique Operati e Surgery and Technique Postoperati e Treatment	403
Surgery of the Abdomen		Antiseptic Surgery Treatment of Wounds and Infections	43
Abdominal Wall and Peritoneum Gastro-Intestinal Tract Liver Gall Bladder I ancreas and Spleen Viscellaneous	387 387 389 390	Anasthesia Surgical Instruments and Apparatus Physicochemical Methods in Surgery	101 103
		Roentgenology	474
Gynecology Uterus Adnexal and Penuterine Conditions	391	Radium Miscellaneous	4 4
External Genitalia Viscellaneous	392	Miscellaneous	
,	394	Clinical Entities General Physiologic 1 Condi-	424
Obstetrics		Gen al Bacterial Protozoan and Parasitic Infec	
I regrancy and Its Complications Labor and Its Complications Lucturium and Its Complications Newborn Viscellaneous	394 39 395 395 397	tions Ductless Glands Surp al Pathology and Diagnosis Experimental Surgery Ho pitals Medical Education and History	100 100 100 100

INTERNATIONAL ABSTRACT OF SURGERY

APRIL 1929

LANDMARKS IN SURGICAL PROGRESS

By IRVING S CUTTER M.D. Sc.D. CHICAGO Dean Northwe t rn U. v rs ty M.d cal S ho I

NATHAN SMITH AND OVARIOTOMS

HERBEPT THOMS M.D. FACS New HAVEN CONNECTICUT

MERICA S place in the his tory of ovariotomy is one of acknowledged suprem ac) and Ephraim McDowell is one of the immortal names not born to die Associated with the advent of this surgical pro cedure is the name of another American surgeon whose contri bution is remarkable and who should share in no small measure the honor due to pioneers in surgical achievement Smith's life was so resplendent with achievement in other fields that his part in the develop ment and establishment of ovar iotomy has been somewhat over looked

Nathan Smith the omni Nathan Smith the omni present genius in New England (176 medicine performed ovario tomy in 1821 with no knowledge that McDowell

had preceded him. Indeed so allow was medical newsyn that she has no here has no write. I am not confident that the first operation by Doctor McDowell was subsequent to that of my father. This operation by Nathan Smith in 1821 is the more remarkable when we realize that handled and other surgical technique by dropping the tumor pedicle into the abdominal cavit, in



NATHAN SMITH (1762 1829)

stead of suturing it to the ab

Nathan Smith was in no sense a backwoods surgeon Like Mc Dowell his training was unusual for that day It included a Har vard and an Edinburgh back ground and he was familiar with and performed many times the acknowledged surgical proce dures of his day As a lithoto mist he lost but two patients in thirty two operations He was an unusually successful cataract operator and made far reaching contributions to our knowledge of fractures particularly those of the thigh He is said to have been the first to perform staphy lorrhaphy for cleft palate His great contributions to medicine and medical education do not

need emphasis here

The operation for the removal of an ovarual royst in 1811 was performed when Nathan Smith was 59 years of age while he was Professor of Physic and Surgery at Vale College. It was performed at Norwich Vermont upon a Mrs Strobridge The distance of this town from New Haven well illustrates the penpatetic nature of the successful surgical practice of that day. With

EDITOR'S COMMENT

STATISTICAL study of all the fractures treated at the Pazzoli Institute in Bologna during the years from 1800 to 1026 and a more detailed study of the fractures involving joints 42 per cent of the total number forms an interesting and instructive contribution to the subject of fracture pathology and treatment

Of the 162 fractures involving the upper end of the humerus reported by Zanoli (p 360) oo per cent fell into one of three groups-uncomplicated fractures of the surgical neck (50 6 per cent) frac tures of the greater tuberosity with displacement of the head of the humerus (30 2 per cent) and fractures of the surgical neck with displacement of the head (q 2 per cent) Fractures of the head of the humerus of the anatomical neck incomplicated fractures of the greater tuberosity and epiphyseal separations altogether formed but to per cent of the entire number. Of interest too is the fact that no fracture was a compound one and in only 2 of the 162 fractures were there asso ciated nerve lesions

Of the 328 fractures about the elbow reported b3 Camurati (p. 361) 112 (34 14 per cent) were supracondyloid fractures 50 (15 per cent) in volved the external condyle 37 (11 per cent) in volved the internal condule and 22 (6 7 per cent) were T or Y shaped fractures (supra and inter condyloid) In 20 cases (6 per cent) there were complicating primary nerve lesions in 40 cases (12 per cent) complicating dislocations and in 67 (20 4 per cent) excessive bone formation at the site of fracture

Two hundred and forty two fractures of the neck of the femur reported by Dusi (p. 363) con stituted to per cent of all the fractures of the lower hmb and 64 4 per cent of all fractures of the femur an unusually high percentage cervical and a cervicotrochanteric fractures oc curred in individuals under forty years of age The results after non operative treatment were excellent or good in 50 out of 66 cases and after various forms of operative treatment in 17 out of 40 cases

One hundred and ninety fractures of the mal leoli are also reported in detail by Faldini (p. 365) 44 fractures involving the knee by Zanoli (p 364) and 186 fractures involving the wrist by Soldi (p 361)

Haberer's discussion of some phases of the sur gery of the biliary tract (p 337) emphasizes particularly the occasional presence of aberrant ducts passing directly from the liver into the will of the gall bladder Such ducts he beheves were present in one case in which after careful removal of an intact gall bladder containing ous bus was seen onzing in drops from the peritoneal coverns of the liver Haberer does not think it possible that in this case the pus could have come from such delicate structures as the lymphatic vessels He believes that the presence of such ducts ac counts for the occasional leakage of large amounts of bile following cholecystectomy and careful ligation of the cystic duct

Francis comprehensive review of bacillus tularense infection based upon 670 cases and his description of four clinical types of the di ease (p. 380) indicate both its extensive distributi n and the widespread interest that his studies of tularæmia have aroused in the medical profession It is unusual that the etiology bacteriology and symptomatology of a disease should be so care fully studied so completely understood and that this knowledge should be disseminated among the entire medical profession in so brief a period of time as has been the case with tularamia and the credit for this signal achievement belon, s to Francis of the United States Public Health Service

A number of other abstracts in this month's issue of the International Abstract of Scr GERY deserve particular mention Baroni s studies on the experimental production of actinomy cosis (p 380) Coley's report of the end results of the treatment of Hodgkin's disease and lymphosar coma particularly with roentgen and toxia therapy (p 371) Forssell's review of the thera peutic methods in use and the results secured at Radiumhemmet in Stockholm (p. 375) Giacobbe a discussion of the therapeutic results of artifi cial pneumarthrosis in intra articular lesions of the knee (p 358) Foster b clear cut discussion of intestinal obstruction (p 330) and Short's review of the symptoms resulting from inflammation of the mesenteric lymph glands (p 326) are a few of many helpful and stimulating papers which have recently appeared in American British and Continental journals

domen but it adhered to no part except the proper of a man I have seen two other ovarian sacks which were taken from patents after death. They had been tapped several times the sacks were egually unattached except to their proper ligaments. Hence I interest that it is not a case of ovarian drops, while the tumour remained moveable it might be removed with a prospect of success. The mode of operating particuled in the above case is the same that I have dead to my pupils in several of my last course outputs. The common of the court has pushted in the previous commons.

I am unware that present day portrayals of surgical procedures are more perfect than this surgical procedures are more perfect than this description by hathan Smith of his operation for owania tumor. When we consider the actual technique of the operative procedure and the fact that he was ignorant of precedence. Nathan Smith scontribution to ovariont whereomes not

inconsiderable. In conclusion we should remem ber that his life was far greater than that of the successful surgeon or even the pioneer in gynecol ogy. Nathan Smith has been finely eulogized by Dr. William H. Welch in a Yale address as

ogy Nathan Smith has been linely eulogized by Tr Utlain H Welch in a Yale address as 'Famois in his day and generation he is still more famous today for he was far ahead of his times and his reputation unlike that of so man medical worthes of the past has steadily increased as the medical profession has slowly caught up with him We now see that he did more for the general advancement of medical and surgical practice than any of his predecessors or con temporaries in this country. He was a man of high intellectual and moral qualities of great originality and untring energy an accurate and keen observer unfettered by traditions and theories, fearless and above all blessed with an uncommon fund of plain common sense.

AT XIV Cut for rish D pay out or fly removed by a Sign of Oper ton Comman to by D Nate Sath Irol sat I Thy dS g yat Y Cut g

The both that graw was Man Stocknotter I h

a h V m aged 51 ye ra. Th (II mg 1 fish case p would the price w taken from the puent -S en years b fre, he pre da mall tumour in her right d situ dim th right ha reg hen bo tth is a god gg h làm tw bheh ât th poost deofth in all d to m d'ta e b th tembelou. The penthelboro fie hilder two person and thre bequeet had origin monu Thy ga hold was to m nihe ld der predat if brast win b submit dit the prote Son R by Erst pregram y from the commen ment of th tumour and then, a h thinks, it was bo t 4 \$ an h in d m ter t dd nlyd poe red probably bro lot the bid ma, 1 4 ser 2 cm a large before Before ad after the burning fab ten h b d turns of fa n s, which les ed from tw hours to helf dy D gp rturn to the sec dichild after the min ocen t of the turn thing q red nad rabl i burst gast and noth g waspre d firtill englitte th had to d I to dy from to reappearan e to a s furge as it h dever b en It was gam burst by a fall gre toore ess I th bd men d fi m t fth p nent fo er ral we k w th Th turnou filled gain to formight, df m h d d to m reas : dd th retmth dl ry fh I t hid wh hw ten in the preso to to prate. The pt t hall be not m h ff ted by th turnou Sh was c it and th az E th tum rincomm delirmen ed y due få family pecually cop g On amin to) to d jurget m in th tright of fits below two counts bly m ble, not I to produ dun til tu con throghe.

Facsimile except from Nathan Smith's original article. The American Medical Re order Volume V 1822

the exception of Rhode Island Nathan Smith's endeavors may be said to have encompassed all New England

It is the chief purpose of this communication to set down again the classical description which was given to the operation for ovariotomy by Nathan Smith

The subject of the operation a Mrs Strobridge of Norwich Vermont was aged 33 years. Her

previous history is summarized

Seven years before the operation she had noticed a snall tumor in her right side situated in the right tide streated in the right tide streated in the right tide streated in the right tide region. She had borne she children to her discovery of this turnor. Her youngest child was ten months of age and was nursing at the breast at the time she submitted to the operation. Three times during this seven year period before operation the tumor is said to have burst inside and decreased in size. The last time this was the result of a fall. It however is said to have refilled very rapidly, and from that time until the operation had continued to increase in size. It was unaffected by the defixery of her last child which was ten months previous to the

operation. Her general condition was not greatly effected by the tumor but the size of the tumor is said to have incommoded her in the ordinandutes of her family especially in bending. The description follows in "athan Smith's own north

Having decided on the operation and determined the mode of operating on the 5th of July in the presence and with the assistance of Doctots Leus Mussey Dana and Hatch I commenced the operation as follows

The patient being placed on a bed with her be d and shoulders omenhat raised an assistant roled up the tumour to the middle of the abdame and held it there. I commenced an incision about an inch below the umbilious directly in the linea alba and ext nied it downwards three inches I carned it down to the peritoneum and then stopped till the blood ceased to flow which it soon did I then di sided the peritoneum the whole extent of the exter nal incision. The tumour now exposed to view was nunctured a capula introduced and seven r ats of a dark coloured ropy fluid was discharged into a vessel. About one pint was spilt so that the whole fluid was about eight pounds. Previous to tapping the tumour by inserting my finger by the side of it I ascertained that it adhered to some extent to the parietes of the abdomen on the right side between the spine of the ileum and false ribs. After e a sat ing the fluid I drew out the sack which brought out with it and adhering to it a conside abl portion of the omentum. This was separated from the ack with the knife and two arteries which we feared m ght bleed were tied with leather ligatures and the omentum was returned By continuing to pull out the sack the ovarian ligament was brought out this was cut off two small arteries secured with leather ligatures and the ligament was then the turned I then endeavoured to senarate the sack from its adhesions to the parietes of the abdomen the was effected by a slight stroke of the knife at the anterior part of the adhesion and by use of the fingers. The sack then came out whole excepting v here the paneture was made and I should think it might weigh beti een 2 and 4 ounces. The incision was then closed with adhesive plaster a d a bandage was applied over the abdomen to un favourable symptoms occurred after the operation in three neeks the patient was able to sit up and

walk and has since perfectly recovered.

I was induced to undertake this operation from
the following con iderations. The patient
model was not greatly and the second to
the facility was not greatly and the second
to the second to the second to
the second to the second to
the second to the second to
the second to the second to
the second to the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the second to
the secon

Brown R C Cranioplasty by the Split Rib Method J College Surg Australasia 1928 1 238

The grift used in Brown's method of cransoplasty is the outer half of a rib which is split us stur. Brown regards the thola graft as unsatusfactory because it does not conform to the shape of the cransil vault and because its removal often disables the pattern for months. In reporting twenty one of the control of the co

None of the patients subjected to Brown a opera too complained of the thoracce inpure and in all who have been examined subsequently the regist of its existent in was found to be the replace of its fellow on the opposite side. Most of the repairs have betone somewhat finitened in the course of time but Brown believes that a more consistent restoration of outline will be obtained as the result of regreence Jacon W Moza M D

Lederer F L. Prosthetic Alds in Reconstructive Surgery About the Head Presentation of a New Method 1rch Otoloryngol 1928 viii 531

In cases in which it is impossible to obtain good results from reconstructive surgery about the head the author employs prostheses. He gives the formula for the manufacture of the material used and describes the procedures by which the prostheses are made and applied. J Frank Doctort. VID

EYE

Rodin F II Perforating Eye Injuries of Young Children California & West Med 1928 xxx 338

Rodin reports three cases of perforating injuries of the yeball in children In the first enucleation was done nucleen months after the injury because of blundness and pain. In the second, the pupil became completely obliterated by adhesion of the iris to the corneal scar. In the third a traumatic

cataract developed

As a rule such injuries cause prolapse of the iris layer, to the lens capsule is common and there is great danger of infection

In the treatment proper cleansing of the eveball and exides so f great importance. Atropin should be instilled the prolapsed ins replaced or removed and the wound excised. A bandage should then be Applied and the privent confined to bed.

LYMAN 1 COPPS 11 D

Weeks W W The Technique of the Motais
Operation for I tosis 4 m J Ophih 1928 II

Following a review of the literature on the Motais operation for pross. Weeks describes a suture for the superior rectus tendon slip which he has found to be secure. The tendon slip is carried through a subconjunctual tunnel onto the anterior surface of the tarsus and supported by a fold of the levator tendon.

Wiener M The Correction of the Defect Due to Third Nerve Paralysis 1rch Ophth 1928 1v11 597

For correction of the deformity caused by paralysis of the thard nerve surgical treatment has not been very satisfactory. Jackson and Dransart quite in dependently suggested transference of the tendon of the superior oblique muscle to take the place of the paralyzed interns. Dransart has transferred the tendon of the superior oblique muscle to the external rectus.

Wiener reports two cases of third nerve paralysis which he operated upon with good results by suturing the superior oblique muscle under the insertion of the internal rectus and re attaching the superior rectus. Vision Wiscour M D

Smith k. R. Concomitant Strabismus and Heter ophoria Bril J Ophth 1928 XII 581

Smith states that the cause of convergent squant is the arrest of development of bisnocular vision in bypermetropus. Many hypermetropus children make good progress in acquiring binocular vision at make good progress in acquiring binocular vision at the state of the control of

In heterophoria the same sequence of events occurs but the patient is able to retain the binocular vision he has acquired

The treatment indicated is training of simulta neous vision. The author says. Bring about sight of the same object with both eyes.

THOMAS D ALLEN M D

Duggan J N A Case of Rhinosporidium kinealy!

Brit J Ophih 1928 to 526

Rhinosporidium kinealyi affects stratified epithe lium fortung cysts lined by flat epithelium ranging from 3 to 4 micra in diameter and containing from eight to fifteen spores The cysts burst discharging spores and are then invaded by leucocytes.

In the case reported a small red youle in the region of the seminars fold of the right eye had grown in a period of six months to a papilloma like an emplaint or the red by a thickened such which prevented closure of the lids. The tumor had a broad base extending to within 4 or 5 mm of the limba but not involving the sclera. It was dark red fairly vascular and not painful unless touched 'is son the exchall and the lymphatic glands in the vicinity were normal. Before a microscopic examination was made the growth was believed to be a papilloma. It was removed and patient sent home six days later

LISTIT L McCon M D

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

McCreery J A and Berry F B A Study of 520 Cases of Fractures of the Skull inn Surg 1928 laxaviii 890

The injuries reviewed by the author occurred in adults. The causes were a fall in 170 cases and unknown cause in 140 cases an automobile accident in 110 cases a blow in 61 cases a street car accident in 14 cases a crushing injury in 5 cases a horse and wagon accident in 4 cases a train accident in 3 cases and a bullet injury in 3 cases and a bullet injury in 3 cases.

The chinical classification of the fractures wa as follows base 347 vault 90 vault and base 57 undetermined 22 compound 37 and depressed 27 In 4 cases no fracture was demonstrable

Scalp wounds and hamatomata were of considerable aid in indicating the sites of the skull and brain injury as well as the location of contrecoup injuries. In surprisingly few instances however did the wounds lead directly to the fracture.

Bleeding from the ear through a ruptured drum is of significance. In cases of head injury with bleeding from the drum or a laceration deep within the external meatus the treatment should be that given for fracture of the skull and the possibility of the development of meningities should be borne in mind

The fixed pupil was a serious sign. When the pupils were unequal the larger pupil indicated the side of the lesson with considerable exactitude. The condition of the pupils often changed rapidly and was a sign of considerable value in determining the patient's progress.

The cranial nerves most often involved were the seventh and eighth. The third and sixth were affected next most frequently and the first was in

volved least freq ently

Generalized paralysis or convulsions were an in dication of severe concussion associated with more on less brain laceration. In cases with these sequelze the coma was usually deep the pupils were fixed the blood pressure was low and death occurred after a few hours.

Localized nealness or spasticity—always sought for as an indication for operative interention and accompanied by changes in reflexes—was of great aid in the determination of the site of the injust I was often impossible to tell whether the condution was due to extradural bleeding or to brain laceration as the typical syndrome of epidural harmorrhage

was conspicuous by its abserce
Practically all patients with a fracture of the skull
complain of headache and at some time if not in

coma present the irritability characteristic of me ningeal irritation Vomiting is of little importance

The \ ray findings when positive are of great value but the authors disregard a negative report

The authors believe that the danger of spinal tip has been exaggerated and that the advantages to be gained from the procedure in both diagnosis and treatment outweigh the risks

While the presence of blood in the spinal flud means only subarachnoid hamorrhage from brain laceration or pial hamorrhage it is rarely found in traumatic cases without a fracture and as it is in itself an indication of brain murry should be on sidered an indication for treatment of such as

night;
The treatment of the cases reviewed included (i)
the treatment of shock (3) hypoxic aramastom
anth especial reference to the even and newboard
(i) blood pressure readings (5) spinal tay (6)
ophthalmoscopic examinations of the fund (i)
treatment for increased intractannal pressure
treat in bed for there weeks and (s) operation.

In the majority of cases the pressure was reduced to normal by one early spinal tap. When this was inadequate magnesium sulphate by mouth or return was used in the milder cases but in the more sever cases repeated spinal taps were found most efficiency. When seedatives were required parallelyde so.

When sedatives were required paraldehide sodium bromide chloral hydrate and luminal were the drugs most commonly used

On discharge the patient was instructed to for long periods each day

In the early stages while the patient is sill in shock operation is probably unwise even when there

are localizing signs

In the cases of patients who died within teach) four hours the picture was that of severe concesso usually with no signs of local pressure. The patients were unconstroom and the pupils were fixed u unlividiated and occasionally unequal. The reflects were abolished and there was a generalized pressure of the pressure

Meningitis occurred in seventeen cases

The blood pressure and pulse rate were of little
value in the determination of intracramal pressure

MORPES H KATE MD

tends to recur and to form metastases. In a case in which enucleation was done eleven years after excision of the tumor death resulted from general

metastasis six years later

Noung reports the case of a man thirty years of age who was hir in the eye nine years previously the did no sequelar from the injury until one year later when a smill growth a min in diameter appeared in the antenor chamber. Two years later vision was floy and the mass which had grown slightly was brown and showed many blood vessels on its surface Enucleation was then advised.

When the patient was examined by the author shortly before the enucleation and nine vears after the accident the brown mass almost completely filled the anterior chamber but there was no in flammation the cornea was clear and the iris

reacted to light and convergence

The pathologist reported the tumor to be a spin dle shaped melanotic sarcoma arising from the tris and lying on the posterior surface of the cornea but not involving the ciliary body

Thomas D ALLEN M.D.

Juler F Bilateral Obstruction of the Central Retinal Arteries Brit V J 1028 it 791

The case reported by Juler was that of a man fifty vars of age who was suffering from cardiorenal disease and hypertension. Obstruction of the central artery of the left eye was followed one month later by similar obstruction in the right eve. The condition was believed to be a thrombosis or endarteritis rather than embolism.

Thrombosis is suggested by the fact that during sound sleep the blood pressure is lowered and the covidinou nucled valued in its properties that the patient awakens but MacWilliam has shown that during disturbed sleep the blood pressure is frequently increased even more than by exercise

In recent cases of such obstruction of the central retural arteries treatment with amyl nitrite and massage has sometimes seemed to cause improvement SAMURE A DURR M D

Chou C. II Angiopathia Retinæ Traumatica (Purtscher) With Some Remarks on Pigment Migration Brit J Ophih 1928 XI 570

A susten year old bow was hit on the right orbit by a ball. After the injury a lymphorrhagic area developed in the retina along the course of the upper or temporal vessels arching over the macula and extending from the disk margin for 5 or 6 pd 4000 tt m days later a fine pigmentation appeared throughout the involved part of the retina and on the on is disk.

When the patient was hist seen by the author about a wick after the accident their was a minute harmorfixing pust above the macula. This quickly became absorbed leaving no trace. Subjectivels there were central relative and paracentral absolute stotomata corresponding in size to the lesions obtained.

Silva R Surgical Technique for the Removal of Subretinal Cysticercus 4m J Ophih 1928 xi 867

The author reports three cases of subretinal cystucreus in the first the exsticerous occupied the macular region and extended to the optic nerve In its surgical removal the external rectus was temporarily detached at its insertion the cystrongly rotated nassily, and the sclera cuntiously incised over the cyst until hermation of the chorond without the control of the chorond without removed without rupture of the sac in spite of the presence of considerable fibrous issue Healing was universified.

In the second case the cysticercus had migrated from one position to another beneath the retina. It was removed by dissection of the sclera over its second position. Ormal central vision was retained.

In the third case the cysticercus was free in the vitreous Operation was refused. Five months later enucleation of the eve was necessitated by intense index clitis. No evidence of suppiration was found. The pathological diagnosis was dead cysticercus in the vitreous.

NOSE AND SINUSES

Harter J H Chronic Suppuration of the Maxillary Sinus Including Oral Fistulæ Operative Cure trch Otoloryngol 1928 vin 523

For the treatment of chrome suppuration of the manilars sinus the author prefers the Denker opera tion performed under local anarythesia assite andicates disease in the anterior naso antral angle causes minimal hamorrhage and shock and requires less postoperative care than other procedure.

The usual objections to this operation are based on the desensitization of the iteeth the alleged sudden release of the accumulated secretion the difficulty of the technique and the weakening of the bons framework of the face. According to Harter

The desenstitation is temporary and does not affect the vicinity of the teeth. The release of accumulated discharge when the patient lowers his head is unusual when the operation is properly per formed. The disficulties of the technique are les sened by local anaesthesia. The weakening of the bony framework of the face is not serious.

these criticisms are fallacious

Hatter regards the intranasal operation with dis favor. He states that the Caldwell Luc operation has a tendency to be followed by narrowing or clear tendency to be followed by narrowing of the nast of the transparent of the company of the pass of the transparent of the company of the pursuits of the transparent of the company of the W M Paro M D

McGregor G W The Formation and Histological Structure of Cysts of the Maxillary Sinus irch Otologyngol 1928 vin 505

Secreting dental and mesothelial cysts of the maxillary sinus are of infectious origin. The primary

Berghausen O Tuberculin Therapy in Ocular Tuberculosis 1rch Ophih 1928 ivu 583

The author states that infection of the eye by the tubercle bacillus is usually metastatic. The ocular process may show three stages. (1) a small nodule usually in the iris (2) a violent usetts and (3) a chronic toppd indocyclitis with the formation of transparent nodules. The second stage is often absent or of very short duration.

The condition must be differentiated especially from syphili by physical examination and sero logical tests including tests with tuberculin Of the latter the intradermal and subcutan ous t sts are recommended.

Berghausen reports several cases in the majority

of which marked improvement followed the administration of tuberculin SAMUEL A DUBE M D Gifford S R Some Modern Preparations Used in

Jinord S. R. Some Modern Preparations Used in the Treatment of Glaucoma Arch Ophih. 1918 lvn 612 Gifford reviews the experimental and clinical work

Gillond reviews the experimental and clinical work one in the treatment of glaucoma during the last done in the treatment of glaucoma during the last discovery of the control of the cont

Wolff, E A Large Implantation Cyst of the Con-Junctiva Proc Roy Soc Med Lond 1928 XXII 22

Wolff reports the case of a man of sixty years who gave a history of having been hit in the right eye five vears before. Two years later a swelling began at the site of the wound and steadily increased in size

On examination there was found a cystic trans incent saveling which protruded from between the eveluds and prevented their closure. The shitish scar of the original injury could be seen in the conjunctiva near the cornea. The cyst was taken out whole. It has between the computed with the sclern and was loosely adherent to both every it are point. If all the sclern and was loosely adherent to both every it are point. If the compound it is not to the compound to the scale was seen to be much be several layers of squamous epithelium. Incel by several layers of squamous epithelium.

Chou C II A Typical Form of Familial Degener ation of Cornea (Fleischer) 4rch Ophih 1928 lvu 574

The case reported by Chou was that of a womat trent) seen; pears old who complained of eyestrat in each comest there were many gray flake like oppositions with clear centers. On shit lamp examina tion these were found to be irregular unstalling to be formed for the complaint of the complaint to be formed for the complaint of the complaint pears of the complaint of the complaint of the neural All of the opacities were beneath the surface of the corner mouths of the complaint of the control of the corner was the complaint of the order of the corner mouths of the corner on the corner mouths of the strong under Bownage s membrane The endothelium was normal penph erall) but showed early signs of degeneration in the central part of the cornea The corneal sensibility was somewhat reduced but the general physical examination was entirely negative

SMUTEL AD DEER HD

Derby G S The Nature of So Called keeppe Nodules 1rch Ophth 1928 lvu 561

In a case reported by the author that of a ma forty three years of age vision was g/o on the right en and cofe; in the left eye in he right en the least and cofe; in the left eye in he right en the least and the reporter and does to extra the posterior sunds the reporter and active inflammation. The ris was somethat the colored and especially around the pupillary many there were many transluced the oppositions which extended slightly beyond the lesser criek. There was slight atrophy of the ris at the margin. The left eye showed streous opacities and a spot of choroidal atroph.

The history and the findings of physical examination ruled out syphilis and led to a diagnosis of tuberculosis

A combined extraction was done on the right eventh very good results. Verhoeff who examined the exter ed piece of iris histologically reported that it was free from lymphatic nodules and tubercles and that the stroma was infiltrated with plasma cells which also composed the nodules.

Similar nodules may be found in sympathetic disease leprosy and tropical syphilis but are not seen in the inits due to focal infection or ordinary syphilis. They are very strongly sugge tive of tuberculosis.

- to ----- of the Irls . Im

Chance B A Case of Sarcoma of the Iris In J Ophih 1918 II, 859

The case reported was that of a man forty two years of age who had ad a mass that his ris for twally seven years. The must was yellow brown and door shaped. It occupied the angle of the astern chamber and was attached to the riss in the mid seven by a harrow base. It was somewhat models the international transparent or transluterni. Or its sufficient transparent or transluterni. Or its sufficient transparent or transluterni. The vert may be a sign of an alternation. The fundes and the tension were normal. Vision was 6/6. The was wat removed.

On examination it was pronounced a mixed-edit sarcoma with melanotic pigment. Eighten days after its existion the globe was enucleated. No further involvement of the eve was found and segeneral metastases have been dis overed in the subsequent six years. Taoms D Actar M.D.

Young, C. A. Primary Melanosarcoma of the lris

I rimary melanosarcoma of the ins is a relatively rare condition. It occurs as a rule after middle are and is characterized by slow growth and late in flammators symptoms. It is relatively her go but Looper E A and Schneider L V Laryngeal Tuberculosis A Study of 500 Patients Treated at the Maryland State Sanatonum from 1923 to 1928 J 4m M 4ss 1928 xct 1012

as laryngeal involvement is the most serous complexation of polamonary tuberculosis frequent throat examinations should be made in cases of tuberculosis of the lungs as the earlier the diagnosis is established the most promising the prognosis. Of 3.227 patents with pulmonairy tuberculosis who were tread by the suthors 15 per cent showed laryngeal complexations. These occurred more frequently in men than in women and were most common between the area of tirents, and forts, vers.

ages of twenty and norty vears. The use of the voice seems to play no part in the development of tuberculous larg ngits. Pathologically the condition is secondary to the pulmonary infer the condition is secondary to the pulmonary infer of trequency. Its voice of the pulmonary infer the voice of the pulmonary infer to the pulmonary infer the voice of the pulmonary infer the voice parasite of the posterior wall and interart venoid solices. The most common symptoms are a change in the voice parasithesias pain reflect otalgia and dissipagia. The condition must be differentiated from cattrabil alrengists juette infection and carcinoma cattrabil alrengists juette infection and carcinoma.

The prophylaxs includes periodical laryngoscopic estimations of tuberculous patients and all possible conservative measures for the correction of pathogeal conductors in the upper respirators tract. After treatment is best given in a sanatorium measures of the control of the

with healing in 655 per cent of the authors cases with moderate lung involvement and in 265 per cent of those in which the lung condition was far advanced. Even in hopeless cases it is offered value as it relieves pain and coughing. The cauterization is done under local anaesthesia by the indirect method at month's interval control of the control of

Thomson Sir St C Intrinsic Cancer of the Larynx Operated on by Laryngofissure Immediate and Ultimate Results 1rch Otolaryngol 1928

The author defines laryngofissure as practiced by himself in cases of intrinsic cancer of the larynx so a partial laryngectomy in which the anterior commissure in front part of the arytenoid behind the ventricular band above and the subglottic area below are excised with the perichondrium lining the thyroid cartilage.

He reviews seventy cases in which this operation was performed. The patients ranged in age from thirty to more than eighty years. Suity three were males. Three died a uthin four days after the operation seven died from malignant disease in another part of the body, eleven died from a local recurrence and eighteen died from other causes but forty eight were still alive and apparently well at the end of three years.

The author concludes that if intrinsic carcinoma of the larvnx is diagnosed early the best treatment is larvngofissure

MANDOR R WALTZ M D

cause of secreting cyst is damage to the chis of the gland tubules by infection. Eddema infiltration and fibrosis are contributory factors. The lining epithelium of secreting cysts undergoes various pathological changes. These cysts commonly occur in the maxillary sinus and are frequently seen in roentgenogram.

Dental cysts suse from epithelial rests which are stimulated into activity by infection. Large phago cytic cells or clasmatocytes have been demonstrated by the author in their contents. These cells are derived from the monocytes and suggest a tuber culous factor in the production of the cysts.

Mesothelial cysts are due to the accumulation of itssue fluids in the issue space. They are found in an ordematous mucous membrane and are filled with itssue fluid. Secreting cysts contain mucus

Cysts should be viewed with suspicion as they occur only in the presence of a pathological process and may act as a focus of infection

The article contains a number of photomicro graphs W M Paron M D

NECK

Carson A and Dock W The Effect of Iodine upon Experimental Hyperthyroidism in Man 4m J M St 1928 claret 701

In the authors studies of the effects of iodine in experimental hyperthyroidism in man the equivalent of the hyperthyroidism in the equivalent of the hyperthyroid state was induced in four persons (two of them the authors) by the ingestion of thyroid extract Lodine was given in the form of Lugol's solution. Observations were made on the pulse rate the basal metabolic rate and the symp

toms All four subjects went through a mild hyperthy roidism with its concomitant symptoms of tachy cardia palpitation anorexia excessive fatigue and nervousness. The metabolic rate gradually increased as the ingestion of thyroid extract was continued After the experimental hyperthyroidism was well developed Lugol's solution was given the thyroid extract being continued as before In two cases the Lugol's solution and the thyroid extract were not kept up at a constant ratio consequently the results are subject to criticism. In the other two cases Lurol's solution was continued over a period of six days which is ample time for clinical improvement from iodine therapy There was no improvement of any kind in either of these subjects

The authors conclude that these experiments present further evidence against the conception that hyperthyroidsm is due to a qualitatively perverted secretion of the thyroid gland and that the importence of iodine in these cases in which the thyroid was not diseased points to the gland itself as the site of action of iodine in hyperthyroidism. The article is summarized as follows

1 A state of artificial hyperthyroidism was produced in four adult males by the ingestion of thyroid extract z Iodine had no effect upon this pathological condition

3 The results suggest that the therapeutic effect of todine in hyperthyroidism is produced by the action of the todine on the thyroid epithelium.

J EDWIN KERPITECK W.D.

McGullagh E P The Parathyrold Glonds Their Relationship to the Thyroid with Special Reference to Hyperthyroldism 4rck Int M d 1035 Min 5.46

McGullagh reviews the literature embysing gross microscope and comparative autions rise pation aspectiments (hypertrophy of one set of parathyroid glands after remoul of another ste hypertrophy of the parathyroid glands after throad ectomy. hypertrophy of the thyroid after pan thyroidectomy) the effects of feeding thyroid extent on the function of the parathyroid citized on the function of the diptorid gland distributed of the thyroid after the administration of partly of the thyroid site cleans and compared to the function of the thyroid glands and a method of measuring it.

Six theories as to the cause of tetany are discussed and four series of experiments which were carried out to determine the blood calcium changes in hypothyroidism and hyperthyroidism are re

ported In the first group of experiments of determinations of the serium calcium, vere made in 27 cassed hyperthy routions in which blateral ligation of the supernor thy roid artery was performed. In second group, 35 determinations of prhysical and the second group 35 determinations of prhysical and which sheet only a sperformed. In the third group 17, serum calcium determinations were made as the cases of thy roidectom. In the four the group 18 cases in which the basal metaholic rate was detrimed coincidentally the blood in the vest basal rate in every case in the morring before the injection of food and within an hour after the metaholic rate of the control of the second of the

In the cases in which ligation of the superior thyroid arteries was done there was no definite dicrease in the serum calcium. After lobectom, the serum calcium snowed a decrease and after thy roidectomy a much more marked decreases and per cent of the 149 cases of hypothesis and per cent of the 149 cases of hypothesis and to be normal and no relationship to the basal metabolic rate may observe the service of the service was the service of rate may observe the service of the service of the service of the rate of the service of the service

In the results of these experiments there was nothing to indicate an abnormal functioning of the parathyroid glands in either hypothyroidism of hyp tthyroidism except when there had been actual trauma or removal of these gland. The author has found no indication for the use of parathyroid hor mone in hyperthyroidism. CABER STEINER MID.

paralysis of the left side of the body. The patient quickly became semi comatose. His recovery was fairly rapid and after five weeks the only abnormal signs were slight residual motor and sensory impair ment on the left side and a persisting field defect which had been a left lower quadrant hemianonsia Five months later it was observed that these im pairments had persisted and there was lateral nystagmus of both eyes The diagnosis at that time was disseminated sclerosis. The third attack came on when the nationt arose from bed after being ill with influenza for ten days. The signs were exactly the same as in the previous attacks but there was no loss of consciousness Recovery was again rapid with the same residual impairments

The fourth and final attack came on after a day s The nationt became deenly unconscious Complete paresis developed on the left side and there was a divergent strabismu. but no sign of meningeal irritation was noted. The pupils did not react to light The right pupil was widely dilated and the leit of pin point size Lumbar puncture showed in treased pressure. The fluid was almost pure blood

Death occurred after about twenty hours

At autonsy no signs of arteriosclerosis or cardio vascular disease were found. The hardened brain showed an aneurism of the right posterior cerebral arters measuring about 34 by 3/2 in The course taken by the blood from the ruptured aneurism was followed through the right optic thalamus and the nght lateral ventricle into the anterior horn of the left lateral ventricle

The four groups of symptoms caused by leakage or rupture of a cerebral aneurism are (1) those in elderly persons with arteriosclerosis (2) those simu lating meningitis with loss of consciousness (3) those with no loss of consciousness but with typical signs of meningitis (4) those with signs of intracerebral

hemorrhage without meningeal signs

The author's case belongs in the last group. In a soung subject with a negative Wassermann reaction and no arterial disease or infective endocarditis the probable cause of recurrent bemiplegias on the same side is the leakage of a congenital cerebral aneurism ALBERT S CRAWFORD M D

SYMPATHETIC NERVES

Leriche R and Fontaine R An Experimental and Clinical Contribution to the Question of the Innervation of the Vessels Su g Gynec & Ob 1 1029 xlv11 631

The authors investigated the effects of pain pro ducing substances local an esthesia heat cold untating solutions and time in cases in which the innervation of arteries had been disturbed by peri arterial sympathectoms peripheral nerve section excision of the sympathetic trunk or its ganglia or partial or complete section of the spinal cord In ad lition they studied the changes in the blood pres sure and the hypermus in affected areas. On the ba is of the results of these investigations they sug

gest that vascular reflexes may be divided into the following groups (1) peripheral vascular reflexes having their centers in intramural plexuses (2) vascular changes through axone reflexes (3) intra sympathetic reflexes which have their centers in the ganglia of the sympathetic trunk (4) medullary vascular reflexes and (s) cerebral vascular reflexes

Upon this hypothesis they explain the phenomena following sympathectomy as follows

After a periarterial sympathectomy the contraction of the arterial segment operated upon is the result of direct trauma to the intramural peripheral centers The contraction lasts only a few hours and the vaso dilation which follows it is produced by long reflexes For this reason it may be bilateral and even produce modifications in the maximum and minimum pres sure and the oscillatory index in all four extremities

Penartenal sympathectomy changes the circula tion in the extremity operated upon and produces an increase in the local heat. The local changes are less marked than those following sympathectomy because persarterial sympathectomy interrunts fewer pressor fibers The hyperemia is less marked and less persistent than after the operation on the

sympathetic trunk

After operations on the sympathetic trunk the vascular changes are the same as those occurring after penartenal sympathectomy but as the arterial wall is not directly injured the initial contraction does not occur

The authors draw the following conclusions

The motor innervation of the vessels is due to peripheral nerve plexuses in the arterial wall itself 2 The extrinsic nerves of the vessels play the rôle of association fibers with a pressor or depressor effect

3 The simplest vascular reflex has the peripheral plexuses as a center The reaction to heat and cold is a reflex of this kind

More complicated and lonser reflexes exist

Every vasomotor reaction should be considered from the standpoint of its influence upon the general circulation and upon the local circulation of the limb subjected to operation

The authors state that their theories of vasomotor activity are not contradicted by anatomical facts They contend that even though vessels may be seg mentally innervated periarterial sympathectomy may through long reflexes produce general changes in the circulation and lower arteriole capillary pres sure by the suppression of pressor fibers thus pro ducing an increase of local heat

PRIC OLDRING M D

Fulton J F Vasomotor and Reflex Sequelae of Inilateral Cervical and Lumbar Ramisectomy in a Case of Raynaud s Disease with Observa tions on Tonus Ann Su g 1928 lxxxxiii 827

The case reported was that of a patient who originally entered the hospital afflicted unmistal. ably with Raynaud's disease in all four extremities I radial periarterial sympathectomy was done first

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Armour D Some Considerations on Head In juries Proc Roy Soc Med Lond 1928 xxii 11 This article is limited to a consideration of head in

juries without skull fracture

Over a century ago Belladyocated more conservative treatment of brain papiers. Because of erroneous conceptions still being advanced by the text books many lose sight of the fact that the skull fracture is of much less importance than the type and degree of injury to the brain. Concession as defined by Trotter is a transient state of instantaneous onest without evidence of structural eere brail injury. We now know that this cannot be true in all cases since the effects may last for long periods of time and there must be definite cerebral damage of varying degree. The theories differ as to the extent and type of the damage. Onants and Golibert use the term traumatic encephalists in place of

postconcussion neurosis
Headache one of the most common symptoms
following concussion is probably due to a disturb
ance of the normal pressure relationships in the
without head wounds or skull fractures have been
reported as showing in a large percentage an excess of
albumin and increased sugar as well as changes in
the tension of the spinal fluid. The factors of
secretion absorption and circulation as well as
those which determine the volume of the crainal
tions of the increase in fluid tension. A decrease in
tension is not so easily explained.

Clinically there is a parallelism between blood pressure and spinal fluid pressure but the former is not a safe indice of the latter except in the late stages or extreme conditions. The significance of the presence or absence of blood in the spinal fluid is often overstressed. The all important factor is the

fluid pressure

The pupils vary in size and reaction to hight according to the digree of shock and the stage of the cerebral compression. Cranial nerves are injured in about 12 per cent of head injuries. Repeated observations should be made of the option that are the control of the injuries of the seventy and duration of the internation compression. The earlier changes are vero engorgement followed by blurring of first the insal and later the temporal margins.

Lumbar puncture should be employed more fre quently as a therapeutic measure in both acute and chronic cases but its danger should be remem bered and the fluid withdrawn slowly The use of hypertonics is another valuable means of reducing pressure non surgically Glucose is the safest of the substances thus far tried out

ALBERT S CRAWFORD M.D.

Symonds C P The Differential Diagnosis and Treatment of Cerebral States Consequent upon Head Injuries Brd M J 1928 u 829

This article deal, chiefly with the definition differential diagnosis treatment an iprognosis of cribial concussion and major and minor contusion, but touches briefly upon intracranial arterial human thage and subdural humantoms

Concussion is defined as that condition of subtohi cessation of cerebral function which immediately follows an injury to the head lasts only a few moments and is succeeded by complete recovery within twents four hours

Major contusion is defined as a condition following concussion in which the patient partially regains in senses but remains stuporous restless and untable for weeks and then shows gradual improvement

Minor contusion is defined as the condition following concussion in which the patient complains it several weeks of headache giddiness and mental disability.

Of seventy-one patients traced by the subset at least a year after the accodent which brought their under his care twenty-eight (23 per cent) of the fifty four who had suffeced from a map or n-war and five (39 5 per cent) of the seventeen who led suffeced from a mapor contisson were able to demonstrate the contract of the contract o

Graff E L. A Case of Congenital Cerebral Aneu rism Guys H sp Rep Lond 1928 [xxviii 49]

Graff reports a case of fatal rupture of an arcumin of the ingth posteror cerebral artery in a man swenty five years of age. The ancumin was un doubtedly of congenital ongin. There had been three previous periods of leakage the first at the age of ten years the second at the age directly cars and the third one year prior to the final rupture.

Little could be learned regarding the details of the it leakage that it came on sauddiny while the patient was bending over to lace his shoes resulted a unconsciousness for tenti four hours and confined the patient to bed for three weeks. The second accudent occurred wideling while the patient was at work. There was dizzness with a right ten poral pain followed first by numberess and then he moral pain followed first by numberes and then he

parshas of the left aide of the body. The patient quickly became semi-comatose Ills recovery was fairly rapid and after five weeks the only about a parameter of the left side and a persisting field defer which had been a left lower quadrant hemianopsia. The months later it was observed that these impairments on left persisted and there was lateral pystagmus of both eves. The diagnosis at that time was disseminated scierosis. The third attack came on when the patient arose from bed after being ill the size of the size

The fourth and final attack, came on after a day as work. The pattent became deeply unconscious Complete pareas developed on the left side and there are as a davergent strabismus but no sign of membra utilation, was noted. The pupils did not react to high The night pupil was woldey dilated and the left of pun point size. Lumbar puncture showed in creased pressure. The fluid was almost nure blood treased pressure.

Death occurred after about twenty, hours
At sulons, no signs of attentionederous or cardio
strollar disease were found. The hardened brain
aboved an accusion of the right posterior cerebral
aftery measuring about 34 by 1, in The course
the by the hold from the ruptured ancursin was
the by the hold from the ruptured ancursin was
the by the hold from the ruptured ancursin was
the but the sulfar and the anterior horn of the
the third posterior.

The four groups of symptoms caused by leakage or rupture of a cerebral aneurrom are (1) those in elderly persons with arterioselerosis (2) those simulations of consciousness (3) those with no loss of consciousness but with typical signs of meningitis (4) those with signs of intracerebral harmorbage without meningeal sign

The author's case belongs in the last group. In a Joung subject with a negative Wassermann reaction and no atternal disease or infective endocarditis the probable cause of recurrent hemiplegias on the same side is the leading of a congenital cerebral aneurism

ALBERT S CRAWF RD M D

SYMPATHETIC NERVES

Leriche R and Fontaine R An Experimental and Clinical Contribution to the Question of the Innervation of the Vessels Strg Cy cc & Obst. 1938 xl u 631

The authors unestigated the effects of pain producing substances local anothers heat cold stratung solutions and time in cases in which the intervation of atterns had been disturbed by periaterial sympatheticism peripheral nerve section exists on the sempathetic truth or its ganglia or partial or complete section of the spinal cord. In 4 dition they studied the changes in the blood pressure and the hypergenia in affected areas. On the bis of the results of these investigations they say

gest that vascular reflexes may be divided into the following groups (t) peripheral vascular reflexes having their centers in intramural plexuses (2) vascular changes through axone reflexes (3) intra sympathetic reflexes which have their centers in the ganglia of the sympathetic trunk (4) medullary sacrollar reflexes and (5) rerebral vascular reflexes.

Upon this hypothesis they explain the phenomena following sympathectomy as follows

After a periatterial sympathectomy the contraction of the arterial segment operated upon is the result of direct trauma to the intramural peripheral centers. The contraction lasts only a few hours, and the vaso

The contraction lasts only a few hours and the vaso dilation which follows it is produced by long reflexes. For this reason it may be bilateral and even produce modifications in the maximum and minimum pressure and the oscillatory index in all four extremities.

Penarterial sympathectom; changes the circula tion in the extremity operated upon and produces an increase in the local beat. The local changes are less marked than those following sympathectom; because penarterial sympathectom; interrupts fewer pressor fibers. The hyperamia is less mirked and less pensistent than after the operation on the sympathectom on the sympathectom on the sympathectom.

After operations on the sympathetic trunk the vascular changes are the same as those occurring after penarterial sympathectomy but as the arterial wall is not directly injured the initial contraction does not occur

The authors draw the following conclusions

I The motor innervation of the vessels is due to peripheral nerve pleatures in the arterial wall itself 2. The extrinsic nerves of the vessels play the rôle of association fibers with a pressor or depressor effect.

3. The simplest vascular reflex has the peripheral.

plexuses as a center The reaction to heat and cold is a reflex of this kind

4 More complicated an I longer reflexes exist 5 Every vasomotor reaction should be consid

5 Every vasomotor reaction should be considered from the standpoint of its influence upon the general circulation and upon the local circulation of the limb subjected to operation

The authors state that their theories of vasomotor activity are not contradicted by anatomical facts. They contend that even though vessels may be segmentally innervated periarterial sympathectom, may through long reflexes produce general changes in the circulation and lower attende campliary pressure by the suppression of pressor fibers thus producing an increase of local heat

FRIC OLDBERG M D

Fulton J F Nasomotor and Reflex Sequelæ of Unilateral Cervical and Lumbar Ramisectomy in a Case of Raynaud's Disease with Observa tions on Tonus inn Suf 1928 IXXXIII 827

The case reported was that of a patient who originally entered the hospital afflicted unmistal, ably with Raynaud's diseale in all four extremities A radial periarterial sympathectomy was done first

and later a right ramisectomy involving the fifth sixth seventh and eighth cervical the first thoracic and the second third and fourth lumbar ram. In addition the lower end of the sympathetic trunk was severed. The patient was followed for a vear subsequent to the operation. The observations made in this case are summarized as follows:

1 Immediately after the second operation (the first was unsuccessful) all deep reflexes which pre operatively had been equal were markedly depressed upon the stude operated upon In the right lower extremity the pulse became more full and the right foot became 3 degrees C warmer than the left foot Horner's syndrome was noted on the right sufe. 2 One year after the operation the silved reflexes Homers a syndrome and the theral differences were still persisting. There were not fet for symptoms of schemus in the right for the the symptoms of schemus in the right for the the respectation. In the right to the the night hand was not appreciably benefit by the operation. In the right lower extremity a per manent and well marked dismustion of resting tons (see settimeted by a sustaining that the large pit, as a index of tonus in the quadreeps being a fractional manifestation of the stretch reflex which in the author yopinion as responsible for the manifestation of tonus had estaged since the operation.

of tonus) had existed since the operation.

The article contains tables of skin temperature observations made with the new and accurate Bene dict thermocouple

ERG ODDERST V.D.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

kilgore A R Chronic Cystic Mastitus—Its Relation to Cancer of the Breast Californ a & Il est

In the non productive non hyperplastic type of thronic mastitis the blue-domed cyst of Bloodgood is the end result. This is a simple serous non malignant fibrous walled cyst unlined by epithelium

In the productive or hyperplastic type of chronic mastitus the epithelial lining of the ducts is proliferated first into several lavers or folds and finally into papillomata of macroscopic size composed almost entirely of enthelium

Cancer arises from epithelium only Few cancers springing from serous cysts of the breast have been reported. In the productive hyperplastic type of chronic mastitis the development of cancer is

In the non productive type of mastitis removal of the mass with a small 'imount of the surrounding issue is sufficient. In the productive hyperplastic type the removal of all it use involved is necessary.

TRACHEA LUNGS AND PLEURA

PALL W SHEET M D

Ochsner A Bronchography According to the Passive Technique The Method of Choice for the Roentgenologist had logy 10 8 x1 412

Following the discovery of the Vrays many attempts at bronchography were made but before the introduction of sodized oil in 1922 they were sellom successful. Since 1922 bronchography has become a well established procedure.

Bruchograph is indicated in all chronic pul manufactions in which the diagnossis is not clear in the control of the control of the control of the literatus and ling abscess and between bronchies characteristic and ling abscess and asset in which the control of the control of the control of the tuberle literatus and ling abscess in cases in which the tuberle literatus of the bronch it reveal tumors. If we have not been found It will reveal tumors of the control of the brunch in the relationship of a foreground and the degree of collapse of the lung A bronchographic examination should be maje in all cases of cough even ting for more than four months.

The filling of the bronchial tree must be observed under the fluoroscope as the oil is quickly aspirated into the alwedi and the resulting haziness may obscure the dilated bronchus. Hates should be taken for confirmation and record. By turning the part of the property o

The method used by the author to introduce the todized oil into the bronchi 1 known as the passive

Viter the mouth has been cleansed with method an antiseptic mouth wash the anterior tonsillar pillar is swabbed with a 10 per cent solution of cocame from the uvula to the angle between the pillar and the tongue When the swallowing reflex has been abolished as determined by immobility of the larvax on attempted deglutition, the nationt is given 3 or 4 c cm of a 3 per cent solution of novocain and instructed to tip the head backward protrude the tongue lean toward the affected side and breathe. The novocain is given to allay the cough The nillars are then again swabbed with cocaine as its effect is of short duration and the fluoroscopic examination is begun. The patient then takes to come of sodized oil into the mouth and aspurates it as before leaning toward the affected side After expectoration of any saliva 10c cm more are aspirated and a plate is taken. This procedure is not unpleasant to the patient

GEORGE A COLLETT M D

Stovall W D and Greeley H P Bronchomycosis

Stovall and Greeley report eighteen cases of pri mar; infection of the lung by yeast like or other fung: They were able in each case to isolate the invading organi m. A review of the literature shows a paucity of such cases due no doubt to the fact that these organisms are not sought for in routine exam mations of the soutum.

In twelve of the eighteen cases in which the fungus alone was considered responsible for the condition the organisms isolated produced lesions in animals

The authors classify the organisms morphologically into two groups (1) the yeast like forms cryptococci ordium monilia saccharomyces and endomyces and (2) the filamentous or bacillary forms such as the actinomyces group.

In the mild type of infection there are very few

symptoms and improvement results after several months of mild tilness. The severe type is not un like tuberculous but its symptoms are not so sever as the cettent of the pathological changes would suggest. There is a moderately severe cough with exactle expectation of misopurulent material which mortail or slightly cleaned while the increase in temperature is only slight.

The authors believe that in the absence of any other etiological evidence a diagnosis of bronchomy cosis is warranted when sputum examinations show the presence of year blie or a threatment of the property of the control of the property o

costs is warranted when sputum examinations show the presence of yeast like or other funga Of the eighteen patients seen in the last two

years one is dead and the others are in various states of ill health. Some are improving while others and later a right ramisectoms involving the fifth sixth seventh and eighth cervical the first thoracic and the second, third and fourth lumbar ram. In addition the lower end of the sympathetic trunk was severed. The patient was followed for a vear subsequent to the operation. The observations made in this case are summarized as follows.

I Immediately after the second operation (the first was unsuccessful) all deep reflexes which pre operatively had been equal were markedly depressed upon the side operated upon In the night lower extremity the pulse became more full and the right foot became 3 degrees C warmer than the left foot Horner's syndrome was noted on the right side. 2 One year after the operation the already reclears Homes's swindome and the thermal differences were still persisting. There were no fir their swindoms of rickense in nibe right foot het he right hand was not appreciably benefited by the operation. In the right lower extremity a genaranent and well marked diminution of returning from (as estimated by assuming that the knee jeth as index of tonus in the quadriceps being a fractional manifectation of the strictly reflect which in the authors opinion is responsible for the maintenance of tonus had essirted since the operation.

The article contains tables of skin temperature observations made with the new and accurate Bene dict thermocouple Exec Oldress UD

and the defense and that they occur most frequently in cases operated upon by surgeons whose technical care of the wound and hereostass are faulty.

Abscess of the lung is but one of the many chinical forms of postoperative sequelic which may have a

common chology

Expeniental attempts to cause the formation of an absers of the lung by introducing bacteria and lorega bodies into the bronchi were uniformly unscreedal, but when bacteria were brought to the lung in capsules or small segments of a vein in the form of an embotic aboves formation frequently resulted. B cteria brought to the lung in the form of a fee indeced blood clot caused diffuse pneu montal in other experiments attempts were made to the companient of the produce mixed the effects of coupling and to produce mixed Lections by introducing mouth anaerobes spurochetic and instorm backli.

The investigations permitted the conclusion that Lig aborest can be produced in dogs by the lodg ment of an infected embolus that diffuse pneumons is rapidly of behing and even lung aboress i dearmand by the balance between the immunity of the bost and the virulence of the organism and that perhaps in man the chromity is due to second are virusions by mouth bacteria.

The lesson is applicable to the larger field of all potoperative pulmonary, complications. The evidence suggests that some if not most lesions of this type are the result of embolism due to surgicial animpulations and that a gentle technique and perfect asepsis will do more to obviate them than improvement in anaesthetic apparatus

WILLIAM E SEICELETON M D

Hedblom C. 4 Joannides M and Rosenthal S Pulmonary Abscess—An Experimental Study Ann Su g 1928 Ixxvui 823

Pulmoan; abscess has been ascribed to the aspiration of infected material from the oral or na.o haryna; lapasages and to the entrance of infected emblaint the pulmoan; issues by way of the blood stream. The latter view has for its support the tremmental work of Cutter who produced such abscesses by injecting infected emboli into the juguration. The former view has been supported by the discovery of apparated material in the abscess of any time of the thing of the most of the course of a parated material in the abscess can offer substances during the course of the case of the course of the substances during the course of the substances are not all the order of the feet prevented adpration in the animals used for his study.

In a bronchoscopic study of 100 patients under foreign toxisification under light peneral amethem Myeroso found that abolition of the cough reflex is of great importance in aspiration. Of 22 cases in which the cough reflex was not aboli, led blood or muca was found below the lary axi nool; 4 whereas of 3 cases in which the cough reflex was abolished blood or mucus was found distal to the larvax in 2

Corper found that in dogs and rabbits placed in a horizontal position aspiration of fluids introduced into the nose occurred readily only when anaesthesia was induced.

Other factors of importance in the etuology of pulmonary abocess are the nature and virulence of the infecting organism. The organisms usually found in pulmonary abocesses are known under the general name of fuso pirochetes and include funceits sprucchates fusiform and pyogenic basili diph theroids and the basilius influenze. By producing conditions similar to those of conditions and the fusion of the function of the condition of the condition

In the experimental work reported in this article 67 intrabronchial injections of infected materials were performed. Abscess es were produced in 20 animals (20 8 per cent). The authors results and

conclusions are summarized as follows

Aspiratory absce ses can be produced in the dog if the cough reflex is controlled sufficiently long to allow the infected liquids to settle in the alveoli. The greatest number of absces es (,1 per cent) occurred in dogs which received fresh blood mixed with spu tum that contained numerous fusospirochætes mixed with progenic organisms. Progenic organisms mixed with blood did not cause abscesses. A lower per centage of abscesses was produced by the injection of gastric contents pyorrhæa scrapings or combina tions of these mixed with small pieces of tonsil and teeth. In one instance an abscess the size of a hen s egg was found seven days after the aspiration of sputum mixed with fresh blood. The fact that thi abscess was not in communication with a bronchus seems to disprove the theory that in contradisting tion to embolic pulmonary absces es aspiratory abscesses are not walled off

MANUEL E. LICHTENSTEIN M D

HEART AND PERICARDIUM

Kahn M. H. and Barsky J. Angina Pectoris. A. Clinical Analysis of 200 Cases. Ann. Int. Med. 1928. u. 401.

The authors present the findings of a study of 200 cases of angina pectoris under observation for a period of several years. They state that while the typical picture is easy to recognize borderline cases present a modified clinical picture that may cause Angina minor' is a term applied to a confusion rather transient attack of anginal pain of moderate seventy In addition to these mild cases there are those with prodromal symptoms Prodromal symptoms occurred in 83 of the 200 cases reported. These are cases which are easily overlooked until a typical attack occurs some time later Most commonly the patient experiences a burning sensation or burning pain behind the sternum for a considerable time before an attack. Mild dyspners with palpitation is also frequent. Less often there is fatigue on exer tion loss of consciousness or paroxysmal tachy

are not doing so well. Potassium iodide copper sulphate the X rays and thimol have been used with variable success.

MANUEL E LICHTENSTEIN M D

Archibald I W. The Selection of Cases of Put monary Tuberculosis for Surgical Interven tion Ven England J. Med. 1918 excit. 2023

The inst and largest group of cases of pulmonary tuberculous sutable for operation are the chronic chiefly unlateral fibrotic and ulcerative cases un complexed by an extre process in the other lung latents with this type of tuberculous of the lung latents with this type of tuberculous of the lung redulls with a long struding infection who show marked resistance. They are the good chronics who in apite of treatment never progress far

enough to resume community life

Of thirt, one patients of this type whose cases are reviewed two died following operation. One died from typhoid fever seven weeks after the operation and after an excellent postoperative recovery. The oth c tied from acute preumonia in the other ling eight days after the operation which was done in one stage. Of the remaining patients thenti-one were operated upon more than eighteen months ago and of these half have been cured and the others show marked unmovement.

The second large group of cases discussed by the author are the chronic cases in which treatment causes improvement for about a year but the le sons then pread the cavities increase and th fever recurs. For this group also operation is advised at though the morthity is a little higher and the prognosis is less favorable than in the insit group.

A third group of cases are those called the poor chromics which show a steady advance in the disease. In these also operation is advasable as in the majority it results in improvement. The primary mortality is high but without operation recovery never results.

Cases in which although the process may be unitateral cavitation and fibrosis are both eccessive and the patient shows evidence of years of infection are terminal cases in which there is nothing to be done

Other classifications and subgroupings may be made but in the main they are relatively few except in the large group in which artificial or acquired penemothors has been maintained for the early exudative forms. To the internsit is left the task of deciding she in pneumothorax should be allowed to lapse but the danger of rupture of the cavity into the artificial pneumothorax with resulting empyema must be constantly borne in mind. On the whole it is better to substitute a thoracoplasty for a pneumothorax because at thoracoplasty obliterates the pleu relations of the property of the present the present space. Will all Stakestern VID.

Theorie W. H. Surgical Operations in Pulmonary
Tuberculosis Cal forms & West Med. 1928 XXX

The surgical procedures recognized as valuable aids in pulmonary tuberculosis are phrenicectomy

pneumolysis artificial pneumothors and etinpleural thorocoplastiv Phrenectomy and past molvisis are of value chiefly as supplementamovement to artificial pneumothors and thoroplasty. The author discusses the purpose of the various operations the selection of the cases the various operations the selection of the cases the results. The third properties of the pullibrary tuberculosis are reported.

tuberculosis are reported.

Thereis agrees with Brown thit if a patient with a large unilateral process shows no definite improvements of the research of the

Carrer B N Surgical Collapse of the Chest Wall as a Method of Treating Pulmonary Tuber

culosis J Vol Canomain 1985 at 411.

Ettrapleural thoracoplasty, consists in the reset ton of portions of the first to the teath or de emb rabs inclusive from their attractions with the system. The resection is done subprincetably. In general teath, the inclusive from 6 to 8 cm from the second and third ribs and 3 cm from the first his second and third ribs and 3 cm from the first his three first rib. The first rib should always be divided as the clear will hange upon it and complete collapse d resist on its division. Partial excession of the eleverance of the distriction of the collapse of the colla

The operation should be performed under local or

light introus oxide anæsthesis or both.
Collapse of the chest places the lung at reit collapses the walls of cavities lessens the movement of
the lymph thereby preventing transmission of the
disease into new locations in the lungs and show
lates fibrous tissue formation in the compressed lung.

It is indicated for the chronic fibrous type of pul monary tubercubous with or without castly forms iton and for essentially mulateral pulmonary tuber culo is in a patient with good resistance in whom satisfactory artificial pneumothorax caunot be induced for which was a McKringer M D

Cutier F C The Experimental Production of Postoperative Abscess of the Lung Edinburgh if J 1928 TXX1 213

Many serin of careful study of postoperative put monary complications has led to the belief bits such complications are due largely to embolism from the wound rather than to inhalation and separation. This opinion is supported by Michigan the opinated out that pullimonary complications operations under local arreshmenter general inhalation produced by the produced of the produced of the procession of the produced of the produced of the processes that they are more frequent in supercases that they are more frequent in supercases that they are more frequent in supercases that they are more frequent in such the great improvement that has been made a bit able to swallow solid food with ease. The patient with stricture of the esophagus should be treated for the rest of his life. When a sound the size of the little finger can be introduced with ease, the author teaches the patient how to introduce it himself and instructs him to use it at least once a week.

Of the 201 patients treated by the method de scribed 12 (41 per cent) died—some from perfo ration and some from other complications

Frequently in cases of stenous foreign bodies become lodged in the tinctured are: During a five become lodged in the tinctured are: During a five were done. In 44 of these cases the stricture was deate lot by eposoning. In such cases it is a technical error to attempt to push the foreign body down with a sound. The foreign body should be removed with the emophagoscope.

Mollison W M Dysphagia Due to Pharyngeal Paralysis J Laryngol & Otol 1928 xhii 769

Difficulty in swallowing due to paralysis of the pharyngeal wall is uncommon. It occurs in lesions of the medula such as localized harmorrhage or em bolism in bulbar paralysis in intercrainal conditions such as tumors or packymeningitis and in extracranial conditions such as foreign body injuries tumors lead posioning and diphtheria.

The author reports three cases of pharyngeal paralysis following severe straining. In two cases vomiting and in one case whooping cough preceded what is believed to have been a harmorrhage in the bulb involving the nucleus ambiguis. The three patients recovered except for difficulty in swallowing due to localized nuclear damage.

One case is reported in which evidence of embolism was present. The pharyngeal paralysis developed presumably from embolic blocking of a vessel to the nucleus ambiguus. The patient died

Two cases in which polio encephalitis preceded the paralysis are reported. The prognosis was regarded as good in one and recovery was complete in the other.

One patient had a gunshot wound at the base of the skull with damage to the ninth tenth and eleventh nerves as they emerge from the jugular foramen Dysphagia was permanent In another case a tuberculous gland was thought to impinge upon the same nerves giving rise to dysphagia Manuel L Licittesteris M D

Bloom C J An Intensive Study of the Thymus South M J 1928 xx1 905

Bloom discusses the common symptoms the methods of diagnosis and the treatment of thymic disease on the basis of 127 cases. He states that the diagnosis is now made at an earlier age than it was made formerly

In the cases reviewed the ratio of males to females was 119 Many of the patients were Jews and Italians It was found that the body weight and the shape of the body are of no significance as regards thymic disturbances

The major signs of the mic disease are nervousness mability of the infant to erv restlessness cyanosis dispince a tractor extreme pallor attacks of weakness are not supported to the infant of the properties of the tractor of the properties of the properties of the tractor of the properties of the pr

In the cases revewed the diagnosis was based primarily on the objective signs. In 4 cases in which a positive diagnosis was made and in 5 cases in which a probable diagnosis was made and in 5 cases in which a probable diagnosis was made and in 5 cases in which a probable diagnosis was made before roentigen examination the Xray findings were negative. In all of the others the diagnosis was confirmed by the roentgenologies.

There were only 2 deaths neither of which could be attributed to the thymic disease alone. One was due to a ruptured spina bifida and the other to

bronchopneumonia

In conclusion Bloom states that the only treat
ment for the mic disease is \ ray irradiation

WILLIAM F SHACKIFTON M D

cardia Tender spots on the chest wall over the sternum and pectoral regions were present in 65 of the 200 cases

Twenty two per cent of the patients had their initial attack before the age of forty years while almost 40 per cent had their first attack between the ages of forty and fifty years The ratio of males to females was 3 1 Seventy nine of the 200 patients gave a history of recurring tonsillitis and it a history of acute articular rheumatism Rheuma tism is to be considered as a possible cause of the condition Only 8 patients gave a positive history or blood test for syphilis . I wenty three were di abetics The importance of tobacco and alcohol in the causation of angina pectoris is disputed That arteriosclerosis is the outstanding condition is indicated by the tortuous peripheral and retinal vessels areus senilis and arteriosclerotic renal changes. In the cases reviewed the arterial blood pressure did not appear to be an etiological factor. The largest percentage of the patients who died had normal systelic diastolic and pulse pres sures. In 62 cases the first cardiac so and indicated a poor muscular quality and in 57 cases a rough systolic murmur was heard. In only 6 cases was the disease associated with rheumatic initral stenosis

clinical symptoms of cardiac asthma pulsus alter mans a systokic gallop rhythm and the occurrence of cyanosis on exertion or with an attack. The concurrence of gall bladder disease and coronary disease has been noted by many. Willins reported the presence of gall bladder disease in 26 per cent of proved coronary cases. The differentiation of the two conditions is of utmost importance.

Of importance in the prognosis are the associated

There were 30 de-ths in the cases reviewed Patients whose first angial attack occurred before the age of forty years survived for from six to nine years. When the first attack occurre I after the age of fifty years the period of survival was considerably shorter and when the first attack occurred after the age of sixty years the period of survival mas less

than six months

The treatment is palliative In cases with spasm
of the coronary vessels diathermy has been of some
benefit Sympathectomy has releved the pain of
an attack and thereby chaminated vagal inhibitory

On the bas s of this series of cases the authors

suggest the following classification
1 Angina pectors due to a ortic disease (a)
prodromal (b) with hypertension (c) with aortic
atheroma (d) with aortic regurgitation (e) with
aneurism of the aortin (f) with aortic stenosis (g)
with other pathological lesions

2 Angina pectors with coronary disease (a) with coronary arternal spasm (b) with left coronary involvement (c) with right coronary involvement (d) with coronary capillary involvement

3 Angina pectoris with rheumatic disease (a)
with rheumatic myocarditis (b) with mitral
steno is
Manuez E Licatenstein M D

ESOPHAGUS AND MEDIASTINUM

Campian A Strictures of the Esophagus from Lye Poisoning (Ueber die Speiserochrenterager ungen durch Laugenvergiftung) Orion Hehl 14.5 hxn) 385

Lye poisoning due to attempts at suicide is usually very severe because as a rule a large quantity of a concentrated solution has been ingested 'accord' ingly, such cases present extensive changes which do not respond to treatment in the same way as he

posoning in children or accidental lye possing. The Jie earch is strongest action in the physiography narrow parts of the tube where the croph again crosses the norts and in the region of the crab. Concentrated solutions cause disturbances in the submuous and in the muscle later which held in encross. At these sites creatness and shrukays occur and form strictures. The scars which care strictures extend through the entire thickness of the combined way.

Recently Salzer attempted to prevent the de velopment of structure and na children de obtained good results. In the Rhinological and Larya-Speal Clinic in Budapent his procedure was used in a cases of attempted sounde in adults. Four patrals (14 8 per cent) doed from perforators caused by 8-6 dilatation treatment. The classification of the conlated of the property of the contraction of the contract of the contraction of the contract

As Lothensen and Kiselsberg have noted its occurrence of spontaneous perforation it can be readily understood that in severe cases even the most careful and shilfful dilation can case perforation. The ocsophageal wall unde gees such marked anatomical changes that the introducion of even the softest cathleter is dangerous.

The author was unable to prevent sear formation and stenoses even in cases in which the dilution was well borne. In the two or three weeks of teest ment it was necessary to use progressively thanks out to be a controlled in a case the stenosis rendered gattestomy.

necessary
As Salzer treatment does not prevent the formation of stricture and is associated with the danger of perforation the author regards it as inadequate

Besides the 7 cuess already entoned the atthe treated so other cases of by passoning in period treated so other cases of by passoning in period three years. The three bears the passoning and the street of the children of the period three highest period to the children of the star and stricture and its site in the case of the period to the children of the star and stricture and its site in the timer. Frequently it is impossible to introduce sound even when the patient is able to sailor the company of the star and stricture and the star and the company of the star and the company of the star and the company of the sail the sail the document of the sail t

hernia. His investigations revealed the occurrence of a types of trunk (1) the masculine type (broad chest and narrow pelvis) which was found in a fully developed form in only one half of the men (2) the feminine type (narrow chest and wide pelvis) and (a) the transition type (cylindrical shape) In the 70 cases of inguinal hernia examined the mas culine type of trunk was found in 24 per cent and the feminine type in 76 per cent. Men with a trunk of the feminine or transition type are predisposed to bernia. In men with the male type of trunk recur rence after operation for inguinal hernia is rare whereas in men with the feminine type of trunk recurrence is not infrequent even after light work and occurs early

Opper (Leningrad) stated that on the basis of 2000 hernix he prefers the Roux operation lapse occurred in from 4 to 15 per cent There is less danger from suppuration after the Roux opera

tion than after the other methods Abdominal mus de exercises are unnecessary

STEPANJANC reported that he had operated on 708 patients with inguinal hernia and on 22 with femoral hernia by Bassini s method Recurrence developed in 43 (6 per cent) and strangulation in 26. Three patients died 2 from strangulated hernia Stepan jane uses silk sutures. In 10 cases of inguinal hernia and I case of recurring femoral hefma the ureter was situated in front of the hernial sac

DIVAVIA reported that of 477 operations per formed by him for inguinal hernia 13 (2 7 per cent) were followed by recurrence In 6 cases the cause of the recurrence was starvation (recurrence after ten years) in 3 early return to hard work and in

4 anatomical weakness of muscle or aponeurosis KRIMON (Kijew) emphasized the importance of bringing out the stump of the hernial sac He is opposed to displacement of the spermatic cord in operations for oblique inguinal hernia and recom mends his modification of Girard's method for large oblique inguinal hernia. He stated that after the operation the nationt should remain in bed for two weeks and should not return to work before one month In the so called temporary hermæ the sac is always empty

MARTYNOV (Moscow) stated that he does not approve of the Wenglovsky method Since in the cases in which he used catgut the incidence of re turrence was 10 per cent he now sutures with silk

Mikt at allows the patient to flex his knees imme diately after the operation and to turn on his side after a short time Elderly persons especially he allows to sit up on the third or fourth day and to wall on the fifth or sixth day Recurrences appear ing seven eleven or twenty years after the opera tion he believes are not recurrences but new herniæ

SCHWARZ recommended Andrews method on the basis of 96 operations

SAPKAJC (Leningrad) reported on 100 inguinal and a umbilical hernix in children ranging from one month to fourteen years of age Girard's method

was used in most of the cases with entire success In 81 cases general anæsthesia and in 38 cases local anæsthesia was employed Four herniæ were strangulated There were 2 deaths a mortality of t 6 per cent The most favorable age for the opera tion is between the third and fifth years. In the cases of infants under one year of age operation for herma is allowable only when there is a tendency toward strangulation

GORFLINO stated that he approves Bassini s operation. He reviewed 482 cases of inguinal her nia in 446 (92 5 per cent) of which this operation was done Suppuration occurred in from 1 to 15 per cent In Goreliko s opinion there is no relation ship between the shape of the trunk and the occur

rence of hernia

LACCHIANI (Tiflis) reviewed 625 operations for bernia most of which were performed according to the Bassini method with the use of silk sutures Suppuration occurred in 3 per cent Local anæsthe sia was employed in 80 per cent. Recurrence devel oped in about 5 per cent of the cases. The causes of recurrence were technical errors suppuration hæmatoma pulmonary complications a poor state of nutrition a weak constitution weakness of the abdominal walls multiple herniæ atrophy of the abdominal wall from the wearing of a truss early getting up and early hard work

KULAKOV reported on 636 operations for inguinal hernia and 44 operations for femoral hernia prefers the Girard and the Roux Herzen methods

WREDEN stated that in his opinion Bassini s method is indicated for indirect inguinal hernia, but is not suitable for direct herma For the latter plastic operations must be done

GRINSTEIN reported that in 18 000 miners who were free from hernia at the time they were hired only 100 hernix developed in the course of one year in spite of hard work and unfavorable conditions All of the hernix were operated upon by the Korber method The patients left their beds on the second or third day after the operation were discharged on the ninth or tenth day and returned to work at the end of thirty days A recurrence developed in s (s per cent) Grinstein stated that the chief factor in the development of berma is a preformed hernial

SCHAACK (Leningrad) reviewed 86 operations for femoral herma 46 of which were done according to the Reich method. He is in favor of the inguinal method of operating on femoral hernia For inguinal

hernia he uses chiefly Girard's method

PAVLENKO (Leningrad) stated that good results

were obtained in 29 cases of femoral hernia by Wreden's musculo aponeurosoplasty with Sevkunen ko s modification From the external margin of I oupart's ligament was cut a strip which drawn through the pectineus muscle strengthened it and was sutured with it to its former site on Poupart's ligament

NEDOCHLEBON stated that occupation has an influence on the incidence of hernia and that long

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Sozon Jaroševič Bobrov Steblin Kaminsky and Others Discussion on Radical Operations for Inguinal and Femoral Hernia and Their End Results (lussprache ueber die Ra likaloperationen der Let ten und Schenkelbrueche und ihre Dauer resultate) Lerhandl d 18 Russ Chir Kong

Moscow 1927 p 51 Forty five speakers took part in this discussion Sozon Jaroslvic (Leningrad) reviewed 1 780 operations for inquinal hernia. One hundred (56 per cent) were followed by recurrence In 37 per cent of the latter the cause of the recurrence was suppuration in 6 per cent a hæmatoma in 5 per

cent a technical error in a per cent too early get ting up (on the seventh day) and hard straining and in 50 per cent an undetermined factor. The undetermined factor in the last group was related to the patient's constitution. This was evidenced by the facts that in this group the same type of herma recurred repeatedly (as many as 4 times) that the former anatomical relations were re estab lished and that direct bernix recurred 8 times more frequently than they developed while indirect hermic recurred only one third as many times as they developed. In direct hermin it is chiefly the posterior wall of the hernial canal that is unsufficient whereas in indirect hernix it is chiefly the anterior wall that is unsufficient. Hence in operating on indirect hernie particular attention must be paid to strengthening the anterior canal wall whereas in operating on direct hermie plastic re in forcement of the posterior wall is the main object In Federov's clinic the Roux method is used for indirect hernix in the initial stages In all other eases excision of the hernial sac is done as high up as possible. For pronounced indirect and congenital herniæ the methods of Bobrov Girard and Bassini are con idered good For direct herniae plastic methods are preferred The patient is kept in bed for two weeks and is forbidden to work for six weeks

Bobros (Veronezh) reported on 1 089 operations for inguinal hernia performed on 704 patients. One thousand and twenty of the operations were done by Oppel's modification of the Roux method were followed by recurrence le s frequently than other procedures. In 13 3 per cent of the cases with recurr ree there were repeated relapses Recurrence was most frequent in cases of direct hermia In 95 05 per cent of the cases healing occurred by first inten tion in o cases (o 83 per cent) there was primary suppuration and in 35 cales (3 22 per cent) the ligation sutures gave way For deep sutures Bobrov recommends non absorbable material

STEBLIN KAMINSKY (Moscow) reported on 870 operations for inguinal hernia performed on 755

patients Bobrov's method being used in the ga jority and on 60 operations for femoral herma chiefly by Prokunia s pectineus musculoplasty

SUBIN reported on 491 operations for hernia 80 per cent performed by the turard Bobros method 10 per cent by the Bassini method and her cent by the Kocher method. The mortality was 1 per cent The permanent re ults were determined for 140 cases. In o per cent there was pain in the operative wound on exertion. In 7 per cent, the ligatures gave way and there was a long-continuing fistula In 8 per cent a recurrence developed. In a case 4 operations were performed

Uspensky (Tver) recommended the Rous opera tion with which several thousand inguing hem ? have been repaired. Strangulated berma he treats according to the Girard method. Supports to occurred in from 5 to 6 per cent of his cases. The incidence of recurrence after the Roux operation was 10 g per cent Recurrence was most frequent i elderly patients. In patients between the twenteth and fortieth years of age the incidence of recustence was 6 5 per cent and in those between the fortieth and seventieth years of age 143 per cent hever theless the Roux method is superior to the Busqui method as the Roux operation in itself is m cheater and in case of suppuration or recurrence does not render a second operation difficult

loukos (Jadrin) reported on 415 overations for inguinal hermia performed on 360 patients 95 per cent of whom were males Only 8 per cent of the Amety pr cent were herniæ were congenital operated on by the Roux method 4 per cent by the Mayo method 3 per cent by the Ba mi method and 3 per cent by the Bobrov method Healing occurred by first intention in \$2 per cent with hæmatoma formation in 4 per ce t and with suppuration and loosening of t or 2 sutures in 11 per cent There were only 3 deaths from strangu lated herma Pecutrence developed in 5 per ceul

on his side immediately after the operation BRAIJCEV (Moscow) regards the simplest method as the best and is opposed to plater procedures He has operated upon 18 recurrent inguinal herais. He believes the can es of recurrence to be muscle weak ness which favors cutting through of the suture the use of catgut insufficiently high dissection of the hermal sac suppuration and getting the par eat

of the cases in which the Roux operation was done

Volkov recommends this operation highly He uses

the finest po stble silk. The patient is allowed to le

up too early Moskatevko (Dnepropetrovsk) reported that in examinations of \$73 men engaged in heav) work in two facto ies he found 35 inguinal hernix In sali tion he examined 35 other persons with irguinal

7 Spasokukocky operation This is a modifica tion of Girard's method A large incision is made the aponeurosis of the externus and of the thin cremaster layer (tunica cremasterica) is slit and the fascia infundibiliformis or fascia transversa is slit longitudinally for a distance of 5 or 6 cm in the region of the neck of the hernial sac. The transverse fascia is stripped from the sac on all sides with a blunt instrument. The freed spermatic cord and the testicle are then held firmly with the right hand the neck of the sac is fixed with a toothed forceps held in the left hand and with one jerk the sharper the jerk the less the damage the distal portion of the sac is torn out Hæmorrhage is absent or minimal The operation may be completed by any method preferred (Spasokukock) See Zentralorg f d gesam Med u Chir xl 726)

8 Prayin operation This is an atypical Bassini operation without displacement of the spermatic cord (\ Mikuli B Linberg See Zentralorg f d

gesam Med u Chir xxxix 737) o Matrosovitsch operation This is a suture

modification of the Roux method (see discussion) to Toprover operation This is a modification of the methods of Bobrov and Girard (see Zentral org f d gesam Med u Chir xxxix 624)

RADICAL OPERATIONS FOR FEMORAL HERNIA

r Prokunin operation This is a plastic operation with flaps from the pectineus muscle and from the fascia (Prokunin Inaug Diss Moscow 1900 Chi

rurgia 1903 September)

2 Abražanov operation (1900) A transverse skin incision is made above and parallel with Pou part's ligament and the hermal sac is ligated as high up as possible the ligature threads being left long Each ligature is then threaded onto a sharply curved needle. The needles are pas ed through the abdominal wall muscles from within outward from 132 to 2 cm above I oupart s ligament and through Cooper's ligament both threads are drawn tight and ned and the skin is then sutured (Abrazanov Russkij Vrac 1909 No 27)

3 Wreden operation (1922) Muscle closure is effected with the use of the pectineus muscle (See Zentralorg f d gesam Med u Chir 11x 420

TUV 365) 4 Herzen operation (1924) This is a plastic re pair with periosteal flaps (see Zentralorg f d gesam Med u Chir xxx 932)

Jevkunenko operation This is a modification of Wreden's operation (see discussion)

6 Mikuli operation (1925) This is a modifica

tion of Wreden's operation without division of Poupart's ligament A longitudinal incision is made Following removal of the hermal sac and the toilet of the fossa ovalis and of the pectineus muscle a stop from 0 5 to 0 75 cm wide and from 8 to 10 cm long is dissected from the aponeurosis of the ex ternus medial to the inner column and left attached to the os pubis The defect in the externus aponeu rosis is sutured By means of a curved dressing

forceps forced through the pectineus muscle from without inward the free end of the strip of aponeu rosis is drawn through the muscle. In a similar manner Poupart's ligament is pierced by a blunt instrument medial to the vessels and the strip of aponeurosis is drawn through I oupart's ligament a maneuver by which the pectineus is drawn taut and elevated. The free end of the strip is placed transversely on the externus aponeurosis and attached with a few sutures (See Zentralorg f d resam Med u Chir xxxix 737) Kornmann (Z)

Lyle H H M Fascial Sutures for Inquinal Hermia Ann Surg 1928 lxxxviii 870

Lyle reports his clinical results from the use of autoplastic fascial sutures in the treatment of inguinal hernia in the male according to the Gallie and the Mc Arthur methods. In the first cases in which McArthur autoplastic pedicled fascial flaps were used the technique was that laid down by McArthur In the others Lyle employed the messal fascial strip to unite the conjoined tendon to Poupart's ligament proceeding on the assumption that fascia unites to fascia more readily than to muscle and used chromic gut for this union

Two types of operations were performed-the standard Bassini repair and the Halstead modifi-The Halstead modification violates the essential physiological principle of muscular shutter closure The rectus transplant and its variants are

physiologically and anatomically unsound

In all operations excision and high ligation of the sac were done and the sac was fixed well above and out of line with the internal abdominal ring. High closure of the internal ring was effected about the cord the transversalis fascia being sutured well up behind the cord In suturing the conjoined tendon to Poupart's ligament Lyle passed the continuous fascial suture in such a manner that the conjoined tendon was shortened and its insertion into the pubic spine was strengthened Immediately after the completion of the stage of dissection the nationt was placed in the position of physiological relaxation To obtain this position the thigh was flexed on the abdomen and the leg on the side operated upon

In order to insure permanent union between the structures to be united it is essential to remove not only the loose gliding areolar tissue from the fascial strips but also to clear I oupart's ligament

was crossed over the other one

The needle should be large enough to allow the fascia to be pulled through without dragging

After convalescence massage and systematic exercises are indicated to strengthen the abdominal

The fascial suture has been employed in 335 herniæ Of the 8 recurrences 7 followed the Halstead modification of the Bassini operation and r followed the Bassini operation Five of the recurrences occurred in cases of direct herma. There were no

recurrences after the (allie operation

MORRIS H KARN M D

continued standing in particular is an important factor. Hernia was found in 2 (8 per cent) of 12 lockamiths 12 (10 per cent) of 121 workers in 100 foundries 5 (10 per cent) of 5 talwors (8 per cent) of 05 hammersmiths 14 (10 per cent) of 77 black simths 12 (35 per cent) of 47 compersmiths 50 (51 per cent) of 163 houseprinters and 46 (34 per cent) of 149 motor car drivers. Nedochlebory operates

accor ing to the Indrews method MANJON (Lennagrad) reported on a or8 nagunal hernix and or femoral hernix 87 pper cent of which were operated upon Central anaxistiess are said in 10 8 per cent of the cases local anaxistiest are so per cent and spinul anaxisties in a 1 per cent. Three themselves are so that the said of the cases of the cases

Supportation occurred in #12 cases (¢ 6) per cent)
GOJINICKY (Moscon) said that in cases of con
genital hernia and in hernia that develops quickli
after trauma all 0 fine prestrue methods give good
results but in cases of occupational hernia to
with a lenost all hernie of the lines aliab helo
that is allowed to the control the lines aliab helo
the usual methods such as the Roux and the Basson
procedures are madequate for the latter
byssokulacky, method may be recommended. In
cases of hernia sacribable to pathological changes in
the tissues plastic operations with transplantation
of fastic tex come into consideration.

MATROSONIC reported that he operated with his own modification of the Roux procedure in goo of his approximately you cases of herms. His modification con ists in the use of single utures instead of mattress sutures. On later examination in roo of his cases he found supportation in 5 per cent and

recurrence in 3 per cent

NAPILLON spoke against standardization and for individualization in hernia operations. He stated that as the ela ti ity of the tissues used is of chief importance. Ba sing sprinciple is correct.

MESTSANTION revies ed about 600 herniotomies He bel eves that recurrences occur more frequently than is generally assumed. He operates according

to the Bassini Postempsky method with subcutane ous displacement of the spermatic cord. Silk sutures are used

HAGEN TORN TE IENEM 4 600 hermotomies Having tired out all of the methods of operating he has returned to Bassinis operation. H believes thridong and narrow hermilisizes should be removed. He prefers practicefual anxisthesia. And has entirely abandoned general anxisthesis. He disapproves of all plastic operations on musike and bone.

TRIOFTEN revened 1 coo cases of ingunal her ma A recurrence developed in 3 (o 3 per cent) In the cases of children with a narrow hermal sac he resects the sac and does nothing further in a plastic wat. If the transverse fascal is stretched he uses pursesting sutures for the hermal protrusion and Hassani sutures with inclusion of the lateral border.

of the rectus. When the inguinal triangle has been of irregular shape. Bassin's operation has given him the best results.

Briefly summarized the operative methods and modifications by Russian surgeons of the radical operation for inguinal and femoral herma meationed in the addresses and the discussions at the Eighteenth Russian Surgical Congre's Morcow 1936 were the following

RADICAL OPERATIONS FOR I C I AL HERVIN

I Bobrov operation (1892) This is thated with the Lucas Championin rendfield. The aponeurous of the externus is slit and the beam is accretised. The fatty insize in the region of the caral is carefully removed. Silk button stutres are—on the cone side the aponeurous of the externuments of the students of the students of the control of

Membrouly sperature (1903). The reck of the hermal sace is parted but the sace not removed. The attachment of the internal oblique and time were muscless advaded at the linea also by estical incision of the sheath of the anterior rects, said the mobilized lover border of the jounds internal oblique and transverse muscles is suttred to Pount's ligament (Menglovsky) Operative Chrurge 1017/9.

4 krymov operation (1993) The central por the hornout of the horno

nique (hrvmov bhd)

5 Optel operation (10:1) This is a model's

5 Optel operation (10:1) In the histon sulure of

the nod of the Rour method In the histon sulure of

the fold of the externus apnourouss the made of

the inner side and Poupart's ligament on the outer

side are included (1 Oppel Naizonja Helium

1010 Nos 4 5 h. Viclensky See Zentrio 5; 18

gream Med of Chr Yxux 37 168 M Bobrov

discussion J

6 We len operation (194) This is a direct
plastic restoration of the posterior wall of the card
by a flap of aponeurosis from the sheath of the rectuabdomnins muscle (see Zentralorg f d gesim Med

u Chir xxx 931)

of the neoplasm was very difficult on account of adhesions which had developed. Uneventful recovery resulted

The cyst was lined by a tissue showing all of the characteristics of intestinal mucous membrane and appeared to be an intestinal malformation. The fluid was free from cells and was therefore not purulent. It contained only fine transparent drop lets probably fat. Cultures were sterile.

Up to 1912 only ago cases of east of the meanentery means and been reported. The most probable theory in regard to their origin is that they are congenital resulting from an intestinal diverticulum or the inclusion in the mesentery of displaced tissue from the genito unnary tract. The cyst in the authors case was evidently of intestinal origin but contained achylous fluid and had developed at a distance from

the intestine Cysts of the mesentery are generally very difficult to remove They develop between very vascular folds of peritoneum their walls are abundantly sup plied with blood vessels and their posterior pole hes close to the inferior vena cava and the ureter Though there is normally a plane of cleavage be tween the wall of the cyst and the peripheral vessels this plane may be obliterated by the growth of the tumor or by inflammation. The mesenteric vessels at the periphery sometimes become so greatly dilated that extirpation is impossible. The symptoms are so slight that the tumor is generally not diag nosed until it becomes large enough to be noticeable until inflammation occurs or until signs of intestinal occlusion appear. The cyst in the authors case had developed between folds representing the primitive mesocolon and the posterior parietal peritoneum but such intimate adhesions had formed between its parietal covering and the right fold of the root of the mesentery that it appeared to be included in the latter and ligation of branches of the mesenteric artery was necessary for its removal

The high mortality of extirpation of cysts of the mesentery (25 to 40 per cent) has led some surgeons to advise marsupialization but in the authors opinion marsupialization should not be resorted to unless extirpation is impossible

AUDREY G MORGAN M D

GASTRO INTESTINAL TRACT

Rigler L G Roentgen Observation of a Benign Tumor of the Stomach Prolapsing through the Pylorus Am J Roentge of 1938 xx 529

Right reports a case of benugn polyp of the thoranth in which it was possible to observe event sensospically and record rocatigenographically the Pholapse of the growth through the pylorus into the duodenal builb. The tumor was first manifested by a rounded certain filling defect near the pylorus which was brought out by pressure. This defect could be displaced toward the pylorus by manipula tion and subsequently was noted in the duodenal builb.

Anotice Harview 54D

Description: The defect of the displacement of the duodenal builb.**

Anotice Harview 54D

**Anotice Harview 54D

Singer H A and Dyas F G Syphilis of the Stomach with Special Reference to Certain Diagnostic Criteria Arch Int. Med 1928 xlin 718

In a case in which the distal one third of the stomach was resected for a leson believed to be a carcinoma the gross and microscopic appearances of the specimen when considered with the clinical history suggested that the changes were syphilitie but in sections examined later it was impossible to find the spirochetia pallida or the classical guimna and two experienced pathologists consulted did not consider the evidence sufficient to justify the ana topical diagnoss of syphilitic gastritis

conities unginess of syminus game tasses of similar nature led the authors is unquirint to the frequency with which the strong string quarter to the frequency with which the strong string gammata were found in the strong strong strong strong and strong content to the literature of the strong str

Broster L R Gastric and Duodenal Ulcer Bril M J 1928 ii 786

Broster reviews 207 cases of gastric and duodenal ulcer which were treated surgically Eighty two per cent of the patients with duodenal ulcer 91 per cent of those with pyloric ulcer and 75 per cent of those with pastric ulcer were males

The diagnosis of ulcer was based upon pain vomiting and hamorrhage Pain was present in oo per cent of the cases As a rule the pain bears a definite relationship to food It is seldom noted before half an hour after the ingestion of food but thereafter may occur at any time during the interval before the next meal. As a rule the more distal the ulcer from the cardia the later the pain In the cases of duodenal ulcer reviewed it occurred from two to three bours after the ingestion of food whereas in the cases of gastric ulcer it occurred after from one to two hours and in the cases of pyloric ulcer after from one to three hours. In only a small percentage of the cases was it unrelated to food and in a smaller percentage it occurred within half an hour after the ingestion of food. In the majority of cases of duodenal ulcer the pain is relieved by food but in cases of gastric and pyloric ulcer it is most relieved by vomiting

Vomiting is of importance because of its association with pain it usually occurs when the pain is most severe Vomiting was a symptom in 50 per cent of the cases of duodenal ulcer reviewed 88 per cent of these of polore ulcer. In conditions such as plone stenois and hourglass stomach its time of polore ulcer are of diagnostic significance with the polore in the conditions of the conditions of the conditions and characters are of diagnostic significance.

Andrews describes a technique for closing injuinal hernix with the use of only white fascia. He states that no one type of operation can be applied to all cases As every hernta is a distinct problem the surgeon should open the inguinal canal prepared to undertake the plastic procedure which will best meet the requirements of the particular case Many of the failures of hermotomy have been due to too much rather than too little surgery Recurrence develops usually at the pubic end of the canal and not at the internal ring where the hernia occurred

Andrews has been treating an increasingly high percentage of ca es by simple removal of the sac sometimes with a stitch or two in the endo abdomi nal fascia to tighten up the internal ring, and closure of the canal without further surgery This operation is sufficient for most hernix in young children and for a moderate percentage of recently acquired hernize in adults. In such cases, the peritoneally lined sac is the only true abnormal factor The muscular and aponeurotic canal is intact structures have not been stretched or torn by prolonged tension of the hernia and the internal ring

originally

is little if any enlarged In old hermse a very constant finding is atrophy of the lower fibers of the conjoined tendon tendon hes a long way from Poupart's ligament. It no longer inserts onto the pubic bone but inserts onto the rectus sheath so that a wide triangular hole is left. The endo abdominal fascia is stretched and thin as it is the only structure lying between the perstoneum and the external oblique aponeuro sis Therefore the problem that confronts the sur geon is not simply the removal of a small sac but the removal of a large sac involving considerable trauma to the cord and the closure of a large defect in the abdominal wall. The ideal procedure would be to bring the conjoined tendon down to I oupart s liga ment below the cord as described by Bassini but this is possible in only about 30 per cent of the Andrews draws down the endo abdominal fascia like a shutter for 1 or 2 in and sutures it to Poupart's bigament for the entire length of the canal In this way is formed a floor for the inguinal region which should preclude the possibility of re

The immediate results of this type of operation have been very gratifying. The relief of pain is more marked than after the Bassim and Andrews MORRI II LAUN M D operations

Short A R: Symptoms Due to Mesenteric Lymphadenitis Lancet 1918 reav 909

Mesenteric lymphadenitis is common and its marifestations are numerous. The glands of the small gut which are said to number about 200 lie in 3 sets between the layers of the mesentery Those of one set are situated close to the margin of the bowel. Those of another set which are more numerous are arranged along the loops of the arternal areades and the rams intestinales and those of another and still more numerous set lie along the main trunk of the superior mesenters artery

The glands draining the ilcocacal angle are (1) the rieal glands in the mesentery of the terminal tleum (2) the anterior ileocolic glands (3) the posterior ileocolic glands, in the angle between the ileum and excum and (a) the appendicular ela d (not constant) in the meso appendix. The glan is draining the large intestine are (i) the epicolis glands lying on the bowel wall (2) the paracolo glands along the arterial arcades (3) the inter mediate glands lying along the course of the main colic vessels and (4) the main group of glands at the origin of the main colic arteries Some of the lymph nodes draining the colon he very close to the ureters

a fact of clinical importance In simple lymphadenitis the lymph nodes are enlarged and soft white or pink on section and usually not adherent to the layers of the mesenters It is difficult to say just what degree of enlargement

constitutes a pathological state Mesenteric lymphadenitis is very common in children When a lymph gland ir the m cut r becomes inflamed and swells and especially when it becomes adherent to and fixes the pentonnal covering putn may result. It seems reasonable of assume that mesentene glands are frequently responsible for attacks of fever without objects. cause They may produce violent pain simulauit renal colic the pain of append itis or attacks of mid abdominal pain not related to food and with or without a rise in the temperature

In a few cases tuberculous glands rray form easily palpable swellings in the abdomen which are rounded in outline slightly tender and fairly firm in consistency. On rare occasions tuberculous me senteric glands may rupture

In the great majority of cases a cure results in the course of years. In certain groups of cases how ever surgical treatment is advisable. Operation is indicated when the attacks of pain are very violent and recur at frequent intervals when there is 3 fair probability that the trouble may be due to appendicitis when a large lamp of uncertain nature is found in the abdomen and when so ab dominal catastrophe develops

MORRIS H KARN MD

Desgouttes L and Ricard A Cysts of the Mesen tery (A propos des kystes du mé entére) I éc

A noman of forty nine years came to the bo pital for treatment for an abdominal tumor which she had first noticed several months before The only symptom was a feeling of heaviress in the lumbar region

Operation revealed a cystic tumor intimately adherent to the root of the mesentery The semoval

Occult blood detected by the benzidine test is usually present in the faces at some time and indi cates ulceration. When associated with a mechan ical deformity achlorhydria is strong presumptive evilence of a growth. The \ray examination is perhans the most uniformly valuable of all diagnos tic procedures. To obtain the earliest evidence of a

Cancer of the stomach should always be suspected when mild indigestion occurs for the first time in middle age and especially when it occurs in a male more than fifty years old The earliest objective sign is probably local arrest of the peristaltic wave in the stomach as shown by the \ rav The tests for achylia and occult blood are of great value A patient with gastric cancer may gain weight under dietetic treatment even though his chance of cure is becoming less favorable JOHN W NIZEM M D

Freeman L Partial Gastrectoms for Pentic Ul cers Coincident with Lymphosarcoma of the Stomach Recovery Colorado Med 1928 xxv

Freeman reports the case of a physician sixty years of age who for two years had suffered from gastric distress which came on from three to four hours after meals and was relieved by alkalies and food There was no history of bleeding from the stomach or bowels The patient had lost 35 lbs and was weak and exhausted. The total gastric acidity was 62 and the free hydrochloric acid 42 The blood count was normal Urinalysis and the Wassermann test were negative \ ray examination revealed a filling defect the size of a quarter on the lesser curvature near the pylorus. The pre operative chagnosis was peptic ulcer with possible malignancy

At operation the walls of the entire transverse portion of the stomach and duodenum were found to be pale and twice as thick as normal Near the pylorus there was a firm indurated area the size of a dollar and in the gastrohepatic omentum and along the aorta there were numerous enlarged glands partial gastrectomy was performed the line of ex-

cision passing through frankly diseased tissues Recovery was uneventful The patient gained rapidly in weight and strength Six months later moderate enlargement of the cervical and inguinal lymph glands appeared and deep \ ray therapy and Coles a toxina were given to a time Fighteen months after the operation the stomach appeared normal on \ ray examination

Examination of the resected portion of the stom ach and duodenum revealed a uniform thickening with round celled infiltration of the stomach walls involving principally the submucosa Adjacent to the pylorus on the lesser curvature there were two indurated peptic ulcers When sections of the stomach and lymph glands were ent to several laboratories four diagnoses were made viz carci noma lymphosarcoma inflammatory tissue and chronic granuloma. The final diagnosis decided upon was lymphosarcoma JOHN W NEEDER M D

Hurst A F Recent Advances in the Treatment of Gastric Diseases Brit M J 1928 II 779

The modern fractional test meal not only shows how much acid is secreted but indicates accurately the motor efficiency of the stomach and is the only means by which the presence of gastritis may be

recognized For the development of an ulcer the presence of free hydrochloric acid is required. In the treatment of ulcer a diet must be chosen which produces the minimal secretion of acid atropin and olive oil should be given to inhibit the secretion of acid and alkalies should be administered to reutralize the acid secreted

In Hurst a opinion milk should form the basis of all ulcer diets as its fat inhibits the secretion of gastric juice and its protein combines with some of the free acid Freezer Gibson and Matthews have demonstrated that milk neutralizes approximately its own volume of o 3 per cent hydrochloric acid Purely carbohydrate diets have none of the neutral izing action of milk Milk acts more satisfactorily when given in small quantities hourly than when given in larger quantities at intervals of from two to four hours The ingestion of milk every hour leads to complete achlorhydria for a considerable part of the day. One of the best neutralizing agents is milk combined with sodium citrate. Occasionally in the afternoon and evening the presence of free acid be fore meal time necessitates the addition of alkalies

Hurst believes that the essential exciting cause of mastric and duodenal ulcer is infection. He therefore emphasizes the importance of eradicating all foci of infection. Tobacco is another factor in the etiology

as it causes increased acid secretion Hurst limits the patient to an ulcer diet until there is complete disappearance of spontaneous pain epigastric tenderness muscle rigidity occult blood in the stools and \ray evidence of the crater of the ulcer

On account of the ulcer diathesis the patient should not return to his old habits of living after

healing of the ulcer

Until recently it has been thought that equivalent doses of various alkalies can be calculated from the chemical formular At the author's request (ibson Freezer and Matthews estimated the hydrogen ion concentrations of various alkalies by adding an excess of alkali to a constant amount of o 3 per cent hydrochloric acid. Their findings are summarized as follows

Magnesium oxide and peroxide and sodium bicarbonate produce an alkaline solution which reaches a maximal and constant degree of alkalinity within one minute. Magnesium oxide has a higher concentration than sodium bicarbonate Magnesium carbonate attains neutrality in less than one minute and then becomes alkaline reaching the maximal

alkalinity in two minutes

2 Sodium and potassium citrates and tribasic calcium and magnesium phosphates become neutral within one minute Calcium carbonate attains

Of 121 patients who were followed for a period of three and a half years about 80 per cent were cured and about 10 per cent showed improvement in their condition CHARLES F DEBOIS M D

Walton A J The Results of Surgical Treatment of Gastric and Duodenal Ulcer Brit M J 1928 H 784

Walton reports the results obtained in 172 cases of gastric and duodenal ulcer operated upon in the period from 1920 to 1924 A satisfactory result was obtained in 84 9 per cent of the total number of cases and in 86 5 per cent of those of pylone ulcer By satisfactory result the author means that the patient is now on a full diet and able to live a normal life

These results are compared with those obtained by Smith in 214 cases treated medically in the period from 1913 to 1222 Of Smith's male patients 29 per cent were cured 15 per cent were benefited at per cent were not benefited and 10 per cent died Of Smith's female patients 40 per cent were cured 20 per cent were benefited 25 per cent were not benefited and 15 per cent died. In c of 5mith a cases carcinoma developed

CHARLES I' DI BOIS MI D

Solkov B and Illin S Gastric and Duodenal Ulcer and the End Results of Gastro Enteros tomy in These Diseases (Ulaus ventricula et duo fent und Dauerresultate nach der Gastro enterostomieanlegung bei die en Erlranlungen)

You chie treb 1927 xii; 168

In the period from 1914 to 1926 gastro enteros tomy was performed in 1 022 cases of bleer admitted to the Torzok Hospital There were 3 deaths a mortality of 3 per cent. The operation revealed a gastric ulcer in 856 cases a duodenal ulcer in 120 cases and scarring and adhesions in 3 cases Seven hundred and sevents five of the 856 patients suf fering from gastric ulcer and 100 of those with duodenal ulcer were males. Most of the nationts were of middle age

The indications for operation were quite broad and no dietary or other treatment was given before the intervention. In nearly all cases local anasthesia was used and a posterior gastro enterostomy with a short rejunal loop was done. The postoperative complications were as follows

Pneumonia This complication developed in 30 per cent of the cases and resulted in 10 deaths More than half of the patients i ere suffering from branchitis and were not treated for this condition

before the operation 2 Embolism Fatal embolism of the pulmonary artery developed in I case eight days after the operation

1 licious circle There were 5 cases of this com plication with 2 deaths

4 Acute dilatation of the stomach In the rease in which the complication developed the patient recovered

5 Comiting Comiting occurred in 10 per cent of the cases Comiting of blood occurred in 5 cases with 2 deaths In 3 of the cases with hamorrhace a second laparotomy was done In a case the source of the bleeding was found to be a blood vessel which had been perforated with the sature seedle

6 Intestiral hamorrhage One patient died from intestinal hamorrhage seven days after the operation

7 Opening of the abdominal wound This oc curred in 4 cases and was followed in 1 instance by death from peritonitis

8 Heus Four patients died from this condition. Sensis There were 8 deaths from sensis The end results three years or longer after the operation could be determined in the cases of only

580 of 841 patients Four hundred and forty one patients (71 per cent) were completely cured or in a relatively good condition Twenty one (3 6 per cent) had been benefited but were not able to do much work. The condition of 15 (20 per cent) was un changed Seventeen (2 9 per cent) were in very poor condition

In the course of ten years 113 patients had died Three hundred and twenty seven died from causes not related to the gastric disease 36 from unknown causes and 8 from carcinoma Three of there who died suffered from gastric disturbances is ter muttently and 34 suffered from such disturbances constantly

In conclusion the author who seems to be an ardent advocate of gastro enterostomy asks unelbet operation is not performed for gastric ulcer too in fr quently and answers himself in the affirmative

Spriggs E The Early Recognition and Treatment of Cancer of the Stomach Brit M J 192 L 838

This article reviews a series of thirty-eight to is in which a diagnosis of cancer of the stomach was made on the basis of the clinical picture upple mented by roentgenological and chemical stude In some of the cases the presence of the lesion was demonstrated also by operation Spriggs states that before the discovery of the roentgen rays if e disk nosis of gastric cancer was frequently difficul v the nutrition was impaired or a palpable ture developed and the prognosis was hopeless Today it can be made in the early stages but there is still too long an interval between the onset of the early est symptoms and an adequate chinical etami ation Too many persons with gastric cancer are treated for

indigestion until the chance for surgical removal

of the lesson has passed The author's patients were twenty seven men with an average age of sixty three years and eleven nomen with in average age of fifty five years The symptoms were discomfort or pain in the abdorded anorevia nausea loss of weight vomiting flatulence or distention heartburn and eructation weakness dysphagia or inability to take solids constipation

hamatemesis diarrhoea and tumor

The amount of distention of the segment the loss of blood the extent of trauma and distress and the circulatory instability are directly proportional to the length of the strangulated segment

3 The type and extent of the vascular oblitera tion in turn has a profound effect on the severity of the lesson This is due to its influence on the production

of the distended necrotic state of the bowel 4 Death from a shock complex can be produced in the absence of bacteria from the involved intestine

if the lesion is extensive There is a striking re semblance between the clinical syndrome of strangu

lation and that of a histamine reaction

5 In short segments and those in which gangrene develops more slowly and with its ever present injury of the mucosa absorption of the toxic bowel content and necrotic tissue takes place Intoxication and shock are both manifest to a less degree

6 Rupture is usually dependent upon the rapidity of the distention and the necrosis of the segment

7 If the case is allowed to progress past the twenty four hour period fluid and chloride loss may be a complicating factor

8 Experimental work with regard to intestinal obstruction should be done under local or spinal anzesthesia These are the preferred types of anzes thesia also for surgical treatment of the condition

9 Fluids by mouth should be discontinued Early relief of the obstruction which prevents the many complications of delay is the means by which the mortality rate in this condition is lowered

to Enterostomy alone is of questionable value when used as the only procedure of intervention Excision of necrotic segments of bowel is best accomplished by the gun barrel method In cases with strangulation all anti shock measures should be employed as an adjunct to surgical removal of the involved bowel

Obstructions of the large bowel are not included in the study of simple occlusion as their symptoms are usually not acute

Orr T G and Haden R L The Toxemia of Intestinal Obstruction J Am II Ass 1928

McIver M A and Gamble J L Body Fluid Changes Due to Upper Intestinal Obstruction J 4m M Ass 1928 xc1 1589

Our and HAYDEN state that the chief and charac teristic chemical changes in the blood in acute obstruction of the pylorus and upper intestinal tract are an increase in the non-protein nitrogen a decrease in the chlorides and a rise in the carbon dioxide combining power of the plasma. They re tract their original hypothesis that the fall in the blood chlorides is due partly to a combination of the chlori le ion with a toxic body in a process of de toxication as they now believe that it is due partly to the loss of chloride in the form of hydrochloric acid through comiting. In the townia there is a greater loss of chlorine than of sodium. The excess sodium combines with carbonic acid to form sodium

bicarbonate which is measured by the carbon dioxide combining power of the plasma

Obstruction of the upper intestinal tract is asso ciated also with dehydration a marked increase in the blood fibring the formation of which is greatly accelerated in any condition with tissue injury and

an increase in the viscosity of the blood These changes can be prevented and life prolonged by the administration of water and sodium chloride McIver and Gamele regard the fatal effects of

loss of the digestive secretions such as occurs in simple blockage of the pylorus or upper intestinal tract as the result of extensive withdrawal of in organic substances chiefly sodium and chloride ion from the blood plasma and the interstitial body This explanation makes unnecessary the hypothesis of a toxin absorbed from the Lastro intestinal tract or a loss in the digestive secretions of some vitally important organic substance. They emphasize however that they regard other types of obstruction the closed loop and obstruction with gross interference with the circulation as represent ing quite different pathological and physiological HARRY W TINK M D pictures

Morton J J and Stabins S J The Relation of Bacillus Welchii Antitoxin to the Toxemia of Intestinal Obstruction Experimental Studies Arch Surg 1928 TVII 860

In experiments on dogs Morton and Stabins found that when intestinal obstruction was produced by dividing the jejunum and turning in the loops to in below the ligament of Treitz the dogs died after from three to ten days from a totæmia manifested by clinical signs and changes in the blood chemistry In another series of experiments they found that after the development of a well marked toxemia recovery sometimes resulted after an operation to relieve the obstruction if bacillus welching antitorin was administered intravenously but failed to result if other antitoxic sera were used. When bacıllus welchii antitoxin was injected intravenously the appearance of toxic symptoms seemed to be delayed HOWARD A MCKNIGHT M D

Simons E J Multiple Diverticula of the Small Intestine Us mesola Med 1928 x1 752

Simons reports the case of a man fifty seven years of age who was suddenly seized with epigastric pain while pumping water The pain was so severe that it compelled him to lie down doubled up for some time He complained of nausea but did not comit Seven hours later the pain was localized in an area 4 in in diameter in the epigastriam and there was board like rigidity throughout the upper part of the abdomen A ruptured gastric ulcer was suspected

At operation no ulcer was palpable or visible in the stomach or duodenum. The small bowel was found to be cyanotic and distended with gas. The discoloration extended downward for about 3 ft No pulsation could be felt in the mesenteric artery A 2 ft portion of the upper mesenters of the small neutrality in two and one half minutes. None of 3 Bismuth oxycarbonate only reduces the acidity and never becomes neutral

these solutions becomes alkaline

silicate and hydrotide which are frequently used for the relief of acidity have even a less effect

Estimated by weight magnesium oxide is the most efficient alkalı Sodium bicarbonate has only one fourth its value. After neutralizing the acid in the stomach these two drugs stimulate the se cretion of more acid. They are in fact two of the most powerful gastric stimulants known given in excess they produce an alkaline solution in contrast to most alkalies such as calcium carbonate sodium and potassium citrate and tribasic mag nessum phosphate which produce a neutral solution Sodium bicarbonate gives immediate relief of pain in most cases of ulcer but its use is followed by an increase of secretion

Occasionally when large doses of alkalies are given in ulcer treatment a train of toxic symptoms to which the term alkalosis is applied may result The symptoms nearly always appear within seven to fourteen days after the beginning of the alkali Anorevia and depression are noted treatment from the first there is difficulty in the ingestion of milk and after a time headache nausea and vomit ing occur. Usually the symptoms are not severe and rapidly disappear when the alkalies are stopped

Chronic gastritis can be diagnosed only by means of a fractional test meal which shows excess mucus in all of the fractions. In this condition achlorhydria is often present and the quantity of free and is always less than normal for the individual because the thick tenacious mucus adheres to the surface of the gastric mucous membrane and blocks the mouths of the gastric glands. Only a small part of the acid gains access to the lumen of the stomach and part of the mucus acts as an alkali uniting with the free acid. An important part of the treatment is gastric lavage to wash the stomach free from This is best done in the morning when the stomach is empty. Hydrogen perovile is the best agent for the lavage

Achlorhydria is a more common condition than has been generally assumed. The author reports its occurrence in 15 per cent of 762 consecutive patients with abdominal disturbances. If the lesion is due to a true achylia gastrica and not to chronic gastritis the administration of dilute hydrochloric acid will relieve the symptoms. As much as 2 dr may be given three times a day When mixed with a pint of water this dose provides a solution of approxi

Foster, W. C. Intestinal Obstruction The Correlation of Recent Experimental Studies and Clinical Applications J Am M Ass 1928 xcs Chinically there are two fundamental groups of cases of acute intestinal obstruction which include

mately the same strength as normal gastric juice CHARLES F DLBH MD

all types of the classical lesions described. Stated briefly these are (1) cases due to the presence of bands and adhesions which cause acute simple obstruction of the gastro intestinal tract without pomary vascular derangement and (2) cases due to such causes as volvulus incarcerated hernix and intussusception in which there is obstruction of a variable length of intestine as well as interference with the vascular supply of that portion. The condition in the second group the author calls acute intestinal strangulation. He states that this group ing is also a satisfactory pathological classification He considers it the only proper division for even mental investigation. He has produced the two syn dromes in animals

The complications of acute simple obstruction and strangulation proceed in a somewhat similar direc tion but vary greatly in degree rapidity of development and severity These facts are of paramou t

importance in the final outcome

In simple obstruction of some duration the may occur above the point of occlusion a variable degree of distention euchymosis and superficial diceration depending upon the level of the lesion and whe he fluid food or cathartics have been given by mouth The most feared complication is perio ation at the base of the occluding stricture with resulting pentontis

In acute strangulation there is rapid progression to gangrene with great distention of the segment. This is soon followed by an intraper to eal transuo tion of toxic fluids and finally perforation

If one recognizes the different ernemment I com ditions under which the recent investigatio s of simple bowel occlusion have been m de and provedy interprets the various observations it will be found that most of the observations are in accord. They may be summarized a follows

I Simple uncomplicated occlus on of the in testinal lumen is compatible with life over a time comparable with that of a normal animal with complete abstraence from food and water Aurala with complete obstruction of the small intestine were kept alive for four weeks without any treatment The blood-chloride except complete starvation figures remained within normal limits

2 The induction of experimental obstruction with an abnormal mucosa and the allow nee of unhimited fluid by mouth produce excessive fluid and chloride loss with the development of a hypo chloræmic state and complicating alkalosis

3 If in addition to the latter state there is an alteration in the mucoea with distention and ecchy mosis there is a superimposed moderate infoxication From this work the following deductions nere

made In high level lesions the course is more rapid and severe because the intestine has a hi her degree of irritability and distention is more rapid Because of the anatomical construction of this area necrosiappears more quickly from secretion and L ernal pressure

medical treatment consisting of dietary measures the administration of belladonna magnesia mineral oil etc there was slight relief of the gas but no gain in weight. In the author's opinion the symptoms were due largely to the occurrence of inflammation in the duodenal diverticulum

The second case was that of a man of thirty four years who complained of attacks of acute indigestion with eas belching constipation and epigastric pain after meals which was partially relieved by soda The patient said that he was largely free from symp toms if he was careful to keep his bowels open with laxatives For the past six weeks he had been in bed under treatment for ulcer in another hospital

I hysical examination was essentially negative Roentgenological examination revealed a ptosed stomach with good tone and no evidence of gastric ulcer Fluoroscopic examination and serial roent genograms revealed a pocket in the first portion of the duodenum just beyond the bulb After five hours the duodenal pocket remained filled

The patient was put to bed treated with lacto dextrin turpentine stupes enemas and belladonna and restricted to a light diet. Under this treatment there was a marked decrease in the abdominal pain and gas. At the end of two weeks the patient had gained 31/ lb, his appetite had returned and the abdominal discomfort was negligible. He was then given a full diet. At the present time he is on a

liberal diet takes mineral oil and has gained 12 lb Golden R Non Malignant Tumors of the Duo

JOHN II ALZUM M D

denum Am J Roentgenol 1928 xx 405 To seventeen cases of non malignant tumors of the duodenum reported in the literature Golden adds two more The tumors included six adenomata composed of mucous cells five adenomata composed of Brunner's glands three myomata one calcified fibro adenoma one tumor composed of fibrous tissue one hamangioma and one lymphangio-endothelioma

Golden states that a non malignant tumor of the duodenum may be the cause of gastric symptoms and harmorrhage. In three of the cases reviewed the dignosis was made by roentgen ray examination which showed a filling defect

In the author's cases surgical removal of the tumors was followed by relief

The author is of the opinion that a filling defect in the duodenal bulb suggesting a non malignant tumor and associated with six hour gastric retention indicates a growth arising in the stomach and pro lap ing into the duodenum whereas a similar filling defect without retention indicates a growth arising in the duodenum stself J IRANG DOGSTY M D

Halpern J The Pathogenesis and Treatment of Peptic Ulcer of the Jejunum (Zur Pathogenese und Behandlung der peptischen Jejunalgesch wuere) Vor chir 4 ch 1928 xix 210

With regard to the rôle of various operative methods in the pathogenesis of peptic ulcers of the jejunum

the author states that anterior gastro enterostomy with Braun's anastomosis has a deservedly bad reputation but the ulcer develops also after other methods even the most extensive gastric resec

Except in the very rare cases of successful medical treatment peptic ulcer of the jejunum must be treated surgically Two procedures are used conservative (restoration of the original normal anatomical relations) and the radical (resection of the ulcer together with the adjoining parts of the stomach) The restoration of the normal anatomical relations (Uspensky s method among others) should be carried out in the cases in which the original gastric or duodenal ulcer is healed and there is no pyloric stenosis However conservative methods do not by any means protect against recurrence Resection of a peptic jejunal ulcer offers at times very great technical difficulties and prevents recur rences only when it is completed according to the Billroth II method or by suturing the stump of the stomach into the mobilized vertical segment of the duodenum Moreover it makes great demands on the strength of the patient who is not always able to withstand the severe operation. If such a radical operation does not appear possible the surgeon must be content with resection of the pentic ulcer with end to end restoration of the continuity of the intestine and the formation of a new gastro enteros tomy This procedure gave very good results in one of the author's cases The patient is entirely well fourteen years after the operation and although he is sixty seven years of age is able to do heavy farm ALIPOV (Z)

Camp J D Jejunal and Gastrojejunal Ulcer and Their Associated Roentgenological Signs J Am M 1ss 1928 xc1 1436

Jejunal and gastrojejunal ulcers simulate in form the usual types of gastric ulcer namely the mucous penetrating and perforated types 1 enetrating ulcers are the most common and are usually found in the suture line or in the jejunum near the anas

Jejunal ulcers are nearly always located in the efferent loon

The interpretation of the roentgenological signs of gastrojejunal ulcer requires an understanding of the characteristics of a normal gastro enterostomy According to Carman the following conditions de note a normal anastomosis

The meal passes freely through the stoma There is no gastric residue

The duodenum is not dilated The stomach is usually smaller than is usual

without a gastro-enterostomy

5 Gastrie peristalsis is not overactive 6 The contour in the vicinity of the stoma is not deformed

7 The efferent limb of the jejunum is neither narrowed nor markedly irregular

8 The stomach is moderately mobile

bowel was white Along the course of the duodenum and upper jejunum there were multiple small diver ticula extending into the tissue between the layers of mesentery Hot applications were made to the cyanosed segment of the small bowel and the ab domen was closed The patient made a good recov ery and has remained in good health for the past eighteen months

The report of the pathologist was as follows It is evident that there was a temporary occlusion of the circulation of the 3 ft of small bowel that was par tially infarcted. It is also clear that there was not a thrombosis of either artery or vein that you were dealing with an extravasation of chile into the mesentery resulting from rupture of a lymphatic Recovery was due to the fact that the exudate was absorbed and the pressure on the vessels released before actual gangrene occurred

TOTAL W NUZLE M D

Neugebauer F Phiegmons of the Small Intestine (Duenndarmphlegmone) Zentralbi f Chir 1028 lv 1651

Fo the forty cases of phlegmon of the small intestine reported by Bundschuh and Wolf in 1915 in all of which the uppermost portion of the small intestine was involved and death resulted the author adds a case in which the lowermost portion of the sleum was involved and recovery resulted

In a patient twenty six years of age who presented the usual symptoms of appendicitis an encapsulated abscess was found surrounding the gangrenous appendix. The median wall of the abscess was formed by a 20-cm portion of the terminal ileum that was bluish red and infiltrated. A 40-cm, por tion of the ileum was resected together with the e.ecum and the ascending colon and the ileum and tran verse colon were then anastomosed sconic examination revealed phlegmonous inflamma tion of the small intestine due to streptococci

SIMON (Z)

Henske J A and Best R R Dijutation of the Duodenum of Chronic Obstruction of the Duodenum Congenital in Origin im J Dis Child 1028 XXXVI 1324

Dilatation of the duodenum in the adult is now recognized as a clinical entity. The symptoms signs and \ ray appearance are typical. The condition is usually due to an embryonic band a mal formation adhesions or compression by the mesen tene root or superior mesenteric artery

The authors report the case of an infant with constriction of the duodenum due to malformation and compression by the root of the mesentery the result of incomplete rotation of the intestine on its mesentene axis. The history was typical of dilata tion of the duodenum in the adult and indicates the need for a more careful study of persistent comiting in infancy and childhood and more frequent use of the \ ray when the diagnosis is difficult

SAMUEL KARN M D

Pendergrass R C Duodenal Diverticula Am J Surg 1928 V 491

Duo lenal diverticula may be defined as pouches or pockets in the duodenal wall which have a free com munication with the lumen of the duodenum. The use of the roentgen ray in the study of the gastrointestinal tract has led to the discovery of many duodenal diverticula which would otherwise have escaped detection

Diverticula may be classified as true and false and as congenital and acquired

Diverticula occur most commonly in the second and third portions of the duodenum Occasionally they contain gall stones and sometimes they undergo malignant change. They may be as small as a small Dea or several centimeters in diameter. They are frequently associated with ulcer of the duodenum

The clinical picture is not definite. The patient may complain of pain unrelieved by food and of and eructations nausea and vomiting. The general 51 mntoms may suggest gall bladder disease putt duodenitis pancreatitis duodenal ileus or gastric Ps lorospasm The chief aid in the diagnosm is \iny examination

The treatment will depend in gely upon the se verity of the symptoms. The usual treatmen is ligation and excision of the diverticulum with in vagination of the base and suture. When medical treatment is decided upon treatment based o that for duodenal ulcer is most likely to gree good results

The author reports two cases of documal diviticulum. The first case was that of a noman thirty eight years of age whose chief complaints were pain and soreness in the abdomen Inflammat on of the bowels had been manifested for nine years by gas and moderately severe pain in the right side of the abdomen There was no history of blood, stools The patient was constipated and took laxatives frequently Her present illness began six dats before her admission to the hospital with sor ness in the lower part of the abdomen on the right side and shi ht nausea. The patient had comitted twice suc the

On>et On physical examination the abdomen was found moderately distended and tympanitic. A diagrosis of acute appendicitis and enterit's was made and operation was advised but the patient refused surgi cal treatment

I ray examination revealed a ptosed stomach with good tone and penstalis. There was marked pylorospasm with an irritable duodenum A dense clump of barium was seen lying in the second portion of the duodenum Examination in the oblique position showed a pedunculated extension from the loop of duodenum Under the fluoroscope the pocket was seen to fill from the duodenum After six hours the stomach was empty but the barrum clump persisted in upper abdomen to the right of the This was still visible after twenty four midline hours in the same location

The patient was again advised to submit to opera tion for the diverticulum but refused to do so Under pentonitis is not uncommon. The safest procedure is partial colectomy by the Mikulicz method

Devine describes a modification of the Mikulicz operation which makes it practically a one stage procedure The first step is identical with that of the Mikulicz technique except that the mesentery is ligated The second step is modified in that the open ends of the bonel are closed gradually while the patient is in his bed. The extra abdominal part of the spur is clamped as soon as the blood supply is assured and a few stitches are placed to keep the mucous membrane well inverted. A few days later the clamp is removed and applied to the intra abdominal part of the spur

When the spur has been cut through sutures are inserted where necessary and the mucous membrane is dissected away. Some of the sutures cut out but after three or four weeks the extra abdominal part of the intestine is practically closed and has reached the level of the abdominal wall Under local anasthesia this stump is then dropped

beneath the muscles and closed over

The author has employed this technique in eight cases with only one death. The operation is of value especially for old and debilitated patients and in cases in which it is not deemed advisable to take the time necessary for the anastomosis at the pri mary intervention IOHN W NUZLM M D

Dumbadze D Chronic Appendicitis in Children (Zur Frage ueber chronische Appendicitis bei Kindern) Vestn Chir 1927 xt 77

In a period of eight months the author operated upon forty children for appendicitis On the basis of these cases he concludes that appendicitis is very common in children but very rare in infants and occurs more frequently in girls than in boys With the first menstruation the pain in the ileocacal region is increased. In the author's opinion there is a familial tendency to develop appendicitis. In children the condition does not have a typical onset It begins with constipation headache ano rema and nausea or vomiting. Only later is there an acute attack such as occurs in adults and this usually lasts only a few hours In general there is no reliable symptom for the early diagnosis of appendicitis in children but the occurrence of nausea

and constipation is very suggestive of the condition The author does not approve of roentgen examina tion. He believes that in the cases of children it is

dangerous

In sixteen of the cases reviewed the appendix ap peared macroscopically normal but showed micro scopic changes. In twenty four cases it presented marked gross changes In twelve cases it contained freal concretions in five oxyuris vermicularis and in others hair bristles nut shells etc. In one case that of a thirteen year-old girl sigmoiditis devel oped and two operations were necessary. In thirty four of the cases the operation was followed by complete relief but in four the pre-operative dis turbances persisted

In the author's opinion appendicitis in children should be treated surgically and the operation should be performed early when possible

LOCH (Z)

Fellows H H What Is a Chronic Appendix? Med Clin N 1m 1928 m 611

Chronic appendicitis is characterized by atrophy of the glands and lymphoid tissue with a subsequent replacement fibrosis It frequently follows an acute inflammatory reaction. The fibrotic changes may or may not cause obstruction or obliteration of the lumen of the appendix. When obstruction or obliteration occurs a cystic dilatation may develop Facal concretions foreign bodies and congenital and acquired bands may cause chronic disease of the appendix

Chronic appendicitis is most common in young adults. As a rule it causes a dull pain and definite tenderness in the right lower quadrant of the abdomen The symptoms do not follow an acute attack directly but develop gradually. They may be persistent or intermittent. In some cases they may be interrupted by an occasional acute exacerbation of varying intensity

In from 65 to 70 per cent of the cases the roentgen ray is of aid in the diagnosis. The two most reliable x ray findings are retention of barrum in the appen dix and evidence of tenderness to pressure noted on fluoroscopic examination. An appendix filled with barrum after forty eight hours when the remainder of the colon is empty is of more significance than an appendix filled with barrum after seventy two hours when the transverse and descending colon still con tain a part of the meal

HOWARD A MCKNIGHT M D

Bychovsky G The Question of Rectal Carcinoma (Zur Rectumcarcinomafrage) Vests Chir 1927 ni ii

The author has operated upon 123 cases of malig nant lesions of the rectum In 87 a radical opera tion of the sacral type was done but in as the condition was so far advanced that only a colostomy was possible

Bychovsky has found carcinoma in 8 5 per cent of all operations on the rectum It is the third most frequent carcinoma cancer of the breast being the most frequent and cancer of the stomach next most frequent. In only 4 of the 123 cases reviewed was a sarcoma discovered The author noted that cancer of the rectum was more frequent and more malignant in the second half of the war after 1916 The most common type was the adenocarcinoma The poste rior wall of the rectum was involved more frequently than the anterior wall Circular involvement was least common The carcinoma was situated most frequently in the ampulla next most frequently in the rectum and least frequently in the anus Be cause of their tendency to undergo malignant change papillomata and polyps in adults should be treated as cancer Metastases of cancer of the rec 9 The stomach is not deformed and does not show a tendency toward spasticity or toward hour glass formation

The recatigenological signs of gastrojejunal ulcer are of two types the direct and the indirect. The direct signs which indicate the lesion itself, are an ulcer niche or crater deformity about the stoma partial or complete occlusion of the stoma irregularity of the jejunum and gastrocolic fistula. The indirect signs are gastice retention, hyperpenstalsis

inducct signs are gastric retention, hyperpensials; distation of the stomach spasticity of the stomach distation of the dwodenum and spasticity of the pequatum. These are not positive indications of a lesion but collectively or in combination they may suggest disease.

The author discusses each of these signs at some length Special stress is placed on the niche which the author believes is the most important unding in these conditions. In support of this view he cites ten consecutive positive cases in which a niche or crater was disclosed eight times An accurate diagnosis requires careful palpation under the fluoroscope with the patient in the upright position Examinations should be made with small quantities of barrum usually one or two swallows are sufficient Stomal and jejunal craters invariably fill with the first swallow of barrum and the niche is best seen at this time. It will stand out as a remaining shadow of increased density in the stoma or as a projection about 1 cm in diameter from the contour of the sesumum In the latter ca e it is usually in the efferent loop and rarely more than 5 cm from the anastomosis The shadow must be differentiated from burium flicks retained by gastric rugge or jejunal folds The latter can be effaced or changed by pressure or manipulation. Niche shadows will remain unchanged or wall become more proncunced under pressure. If they empty they will re appear Questionable shadows should be confirmed by a ADOLFH HARTONG M D second examination

Porzelt W Perforated Peptic Ulcer of the Jejunum Following Perforation of an Ulcer of the Duodenum (Das perforate Ulcus pepticum jejuni im Gefolge des Zwoelfingerdarmgeschwaers durchbrichs) Zentralbi f Liv 1923 iv 1740

A man thirty one years old who was treated by gastro-enterostomy with a Braun anastomosis for perforated uleer of the duodenum came to operation six morths later for a peptic uleer that had per forated into the peritoneal cavity.

Datal to the gastro-enterostom, a perforation the size of a pea was found in the loop of jeunum There was no trace of the old ulter in the duodenum Resection was done by the Kroellein Roux method with a Y anastomosis. Two thirds of the stomach including the gastro-enterostomy and the Bratis enteroid and the gastro-enterostomy and the Bratis enteroid anastomosis of the remaining part of the stomach anastomosis to the remaining part of the stomach anastomosis to the remaining part of the stomach and the blandly closed affected top of jeu unit fastends side to side to the efferent loop of

The resected specimen showed an ulcer the size of a plenning with a pea size I perforation on the d. til side of the intact anastomosis

The operation was followed by a smooth con valescence but the patient old not ob y the instructions given him regarding his det and developed chinical and roentgen signs of a new peptic uler at the site of the gastro-intestinal anastomosis

On the basis of this case and similar cases reported in the literature, the author advises against castroenterostomy in cases of freely perforating duodens ulcer He believes that if the patient can be nour ished parenterally and rectally for a sufficiently long period of time the best treatment is suturing of the perforation. Under such currumstances the Euclidere jejunostomy also is contra indicated. If the general condition and the length of time that has elapsed since the nerforation do not allow primary reserbed secondary resection is the relatively surest pre ventive of pentic ulcer of the semnum. From the reports of Burgfeld and Harlinger it seems to the author doubtful whether the Billroth I or II wether should be used. The fact that disturbances suggest ing ulcer may recur as in the author's case even after extensive resection with a change in the and ! leads to the conclusion that the after treatment LOZHE (Z) should be left to the internist

Cancelmo J J Carcinoma of the Jejunum Ass S Of 10 8 livery 941

Less than a per cent of carcinomata of the gain netstinal tract occur in the small intestine. Unless carcinoma of the small intestine. Unless carcinoma of the small intestine is obstructive the physical findings are few. Because of the fluidity of the contents of the small intestine the mass solves not palpable and unless the kisson is discribed blood is not found in the stools. here the roes' genegarizes tellow indicates that the lesson is a or

The author reports the case of a noman say three years of age who gave a history of undgestion of eight years duration. During the last fox, you thus condition and become more severe and for eight months there had been slowly increasing emergement of the abdomen. The patient stated that mappetite was poor and that about an hour after eight ment she had cramp like pauns in the center of the abdomen. She brid always been costive 'comitted' coverred alworst daily.

Operation revealed a large mas involvin about 5 ft of the jejinnum. This was found to be an adversary many in the mucosa of the jemina which had invaded the ruscular and serous coats.

SANCEL LARES M.D.

Devine II B Colon Surgery in the Debilitated

J College Surg 1 str las a 1928 1 173

Surgery of the colon 1 associated with danger because of the fact that the farg intestine has a post blood supply and highly septic contents the presence of a carcinoma or chronic obstruction lowers the patient's resistance mound healing is slow and Petzetakis Amœbic Cholecystitis The Presence of Amæbæ in the Pus of Purulent Calculous Cholecystitis (De la réalité de la cholécystite ambienne Présence d'ambes dans le pus d'une cholécystite calculeuse purulente) Bull et mém 3c mét d'ubé de Pur rules d'ur 2018 d'ut 2018.

The author has repeatedly maintained that amobic dysentery is only the best known of the many manifestations of amobic infection and that there is an amobamia that may result among other manifestations in amobic cholecy situs

In this atticle he reports the case of a woman of sulf, for years she onetered the hospital with signs of suppurative cholecystits. The gall bladder was enlarged and adherent. Cholecystotomy was per formed and a large stone was found in the common duct. Microscopic examination of the fluid showed many amorbic and cysts. The gall bladder was drained. After six injections of 0 os gim each of method the five subsided and the patient was dischared circle.

In this case there was no history of dysentery. The cholerystite did not result from an abore of the liver because the liver was found normal and the symptoms from the beginning were those of cholerystits. Such a cholerystitis may be brought about by blood infection in the course of an american itsiation that has not caused intestinal disease by the ascent of cysts traversing the duodenum or by descending infection from an amorbic hepatitis that has not caused aboress. The case is of interest about his respect to the pathogeness of biliary calculum. Which are so frequent in Feyry Without doubt the american infection was the cause of the large gall stone that was found in the common quet.

If cholecystitis caused by amorbor is diagnosed early the prospects for cure are better than in bacteral cholecystitis. If a cure is not obtained early the gall bladder remains a reservoir of amorbor from which dysentery may develop

AUDREY G MORGAN M D

Haberer H Surgery of the Biliary Tract (Zur Gallenwegechrurgte) 4rch f Verdauungs Krankh 1928 xlm 155

In 1035 the author reported that m 56 cases in which he operated for gall stones there was no matance of fatal pertionities developing entirely under conditions that could not have been explained either by the findings at operation or by the nature or technique of the operative procedure. In 154 cases operated upon in the last two vears there were 2 cases of pertionities. In both of these cases following a simple entirely clean concept the control of the cases following a simple and the bed of the wound was therefore drained. In a such absress around a catigut suture that had been wed in suturn, the bed of the gall bladder was in suturn, the bed of the gall bladder.

Observations at operation in 2 other cases gave the author the opportunity to explain such puzzling instances of pentonitis. In the first case, in which

there was an empyema great care was taken in the extirpation of the organ not to injure the peritoneal covering of the undersurface of the liver but just as Haberer was about to suture the bed of the liver he noticed drops of pus coming in large numbers from the peritoneal covering. He is not inclined to the belief that this was a case of suppurative inflam mation of the lymph vessels since we know that in general lymph vessels are such delicate structures that even when suppurative infection is present and the vessel is cut across it is hardly ever possible to see pus with the naked eye. He believes rather that this was a case of numerous aberrant ducts into which the pus from the empyema entered directly such ducts usually being connected on one side with the gall bladder passing obliquely through its wall and on the other side with the liver

Haberer reports a case in which a second laprotom was necessary tent four bours after the first operation because after closure of the abdomen without drainage there had been an escape of bite beneath the liver. The existic duct ligature was in good condition but a continuous occang of bite occurred from the bed of the liver which was covered with pertinoeum

In a second case reported there was an aberrant duct of remarkably large size. The patient was a forty seven year old woman who following frequent severe febrile attacks decided to submit to operation because the last attack persisted after a week the course of a retrograde cholecystectomy exposure of the neck of the gall bladder met with difficulties on account of many areas of fresh in flammation in the old indurated adhesions separating the gall bladder from its bed the surgeon suddenly opened up a duct lying beside the gall bladder and a large amount of bile escaped. He immediately examined the deep bile ducts thinking that he might have injured the hepatic duct but the deep bile ducts were found intact. The duct proved to be as was demonstrated by the opened gall bladder specimen a particularly large aberrant duct A large quantity of bile was evacuated through the drain the quantity became even greater after the removal of the strip of gauze on the sixth day Doubtless the cystic duct ligature had cut through in the inflamed tissue

The patient made a good recovery and the fistual finalis closed but five days after the operation poin loss of appetite and an increasing reterus began los of appetite and an increasing reterus began at a second laparatomy it was found that the common bile duct was compressed by about 'f litter of bile that had collected between the adhesions of the distribution of the device of the distribution of the device of the distribution of the distri

They involve first the liver and then the bones The course of rectal cancer is much more malignant and more rapid in young than in old patients. The author advises diagnostic biopsy when rectal carcinoma is suspected but emphysizes that this should be due author advised.

carcinoma is suspected but emphisizes that this should be done with the cautery instead of the scalpel In general the prognosis of cancer of the rectum

tum are spread by the lymph and blood routes

is better than that of cancers in other organs such as the stomach and breast. If not operated upon rectal cancer usually causes death within three years. Of the authors 87 patients who were subjected

to radical operation is (174 per cent) died following the operation whereas of the 53 subjected to colostomy 4 (11 per cent) died as the result of the operation. Of the 46 patients who could be traced after the radical operation. If were alive after these years 14 were alive after five years and y were alive after from the operation.

The author prefers spinal ensistents for the radical operation. The procedure of choice he believes is the savral method. If thus not adequate he uses the combined abdominodorsal approach and in cases in which the carcinoms is proached and in cases in which the carcinoms is been also as the companion of the com

LIVER GALL BLADDER PANCREAS AND SPLEEN

Wangensteen O II The Hæmorrhagic Diathesis of Obstructive Jaundice and Its Treatment Ann Surg 1918 luxxvu 845

One of the most important causes of death following surgical intervention for the relief of blight obstruction as harmorrhage. The retention of blight of the tendency to bleed and the alternation in the cognition of the blood in creams. The explanation consequence of the blood in creams. The explanation dismunition of hier limition consequent upon the blight obstruction that the consequence of the consequence

The retention of bile pigments in obstructive jaundice is thought to cause a functional deficiency in calcium and to render the blood calcium less available for congulation of the blood. An actual quantitative deficiency of blood calcium however does not occur. Calcium is a good remedy to reduce the prolonged extravascular clotting time of the blood in biliary obstruction.

The treatment most urgently indicated to prevent hamorrhage in obstructive jaundice is early relief of the biliary obstruction Morris H Kans M D

Bockus H L and Gershon Cohen J Simul taneous Non Surgical Drainage of the Gall Bladder and Intravenous Cholecystography Ark Int Med 1918 the 735

The authors report their results in nine cases in which non surgical biliary drainage was performed

simultaneously with choless tographic studies. The stimulants used to evacuate the contents of the gall bladder were 33 per cent magnesium sulphate is per cent magnesium sulphate and olive oil Amazird reduction in the size of the gall bladder was found in every case. The patients are prepared for the study by the use of tetra indophenolthalen. There and five tenths grams of the de dissolved in 100 man five the size of the

Of the three to the various students.

Of the three to the various students with the tentumbarts employed olive oil satterness the most effective that the gall bladder was not employed completely but the gall bladder maying it and than one hall occurred in seven cases. The admission than one hall occurred in seven cases. The admission than one hall occurred in seven cases. The admission than one hall occurred in seven cases. The admission than one hall occurred in seven cases.

The authors conclude that medical bihary drain age properly conducted will evacuate the gall blad der as well as a fat meal in 30 per cent of case and that it will cause an appreciable drainage of bit from a normal gall bladder in gractically every tase

MANUEL E LICHTENSTEIN M.D.

Reinblatt II M The Infrequency of Primary Infection in Gall Bladder Disease Vew England J M 1928 excix 1073

Four hundred gall bladders removed at operation were studied pathologically. In o cases the condition found on gross examination was acute empty and a studied pathologically and the condition of the case takes as a specific pathological was performed to the cases the clinical diagnoss was chrome cholecystitis and operation was performed during a quiescent period of the disease. Forly two per cent of the patients who were admitted to the opstald during an attack were considered to beautie tog from acute cholecystitis. Fifty per cent of the total number were under forty years of age. The tation of females to makes was 4.1 As the result of his study. Fenolist draws the following conclusions.

I Histopathological study of gall bladders re moved at operation indicates that the importance of infection in the causation of cholecystins has been greatly over-estimated while the importance of me tabolic and mechanical factors has not received due consideration.

2 Primary infectious lesions of the gall bladder are exceedingly rare and focal infection arising from

are exceedingly rare and local infection arising from this organ has not been proved 3. Since cholecystitis seldom gives rise to pen

tonitis the emergency treatment of gall bladder disea e can in no sense be compared with the first appendicitis

4 The treatment of cholecystitis is primarily medical and becomes surgical only when complications of a mechanical nature develop

FAM C ROBITSHEE M D

lesions are classified as (1) absence of the left half of the diaphragm, (2) the thoracic stomach (3) eventration of the diaphragm (4) congenital hernia

and (s) acquired hermia
Abenee of the left half of the disphragm has been recognized at autopsy in surgical operations and recognized at autopsy in surgical operations and rentengengraphically. Its recognizion is of particular importance if surgical intervention is contemplated it is in superable. Care must be taken not to sernle too much importance to trauma in making a diagnosis of diaphragmantic hermas sunce in cases of congenital lessons there is often a history of trauma not to the contemplate of the contemplate of

In case of thorace stomach of which two has been diagnosed by the author the disphragm of moral form and intact on both sides but the stom and in studied within the check cavity. The cross plagus is very short and the duodenum or in some cases the pylone end of the stomach passes through the opening in the diaphragm which would ordinarily accommodate the crosphagus. Surgical interviention is not necessary or advisable in the treatment of these cases unless a complication develops.

Eventration of the diaphragm usually occurs on the left side but at times may be found on the right

side and occasionally on both sides. The diaphragm may be as high as the second costal cartilage but on careful roentgen examination especially on lateral exposures its complete outline can be made out Eventration is usually due to defective musculature.

Eventration is usually one to decreave musculature and darkness of congenital herma at defect in the darkness of congenital herma at defect in the darkness of the darkness of the contents to pass into the chest cavit, with or with out the presence of a sac. Such defects in the daphragm usually occur on the left sade but may be present on the right side in which case the liver may block the opening sufficiently to prevent the contents of the abdomen from passing into the chest cavity. Repeated examinations may reveil pirts of the stomach or colon sometimes above the dia differentiate the condition from absence of the left half of the dapahragm.

Acquired herma may occur through the cospital goal orifice as the result of gradual relaxation of this opening. The condition may be diagnosed by careful rentgeno-copic and roentgeno-copic and restrict the horizontal or sighth; unserted position. The cardiac end of the stomach or rarely the splenic flewire of the colomb way be observed in the chest cavity alongside the esophagus. Trauma may also be a cause of acquired herma and can be diagnosed roentgenograph ically by observing abdominal organs above the diaphragm.

general condition became worse. Later the stools again became acholic and the bile fistula re opened. Another train was then inserted and as a pre-cautionary measure was left in. The patient lost weight again became jaundiced and finally develored a duodenait fistula.

At a third operation the peripheral segment of the common bile duct was found to be transformed into an indurated mass. With extreme difficulty, the central portion of the common bile duct was dis sected free from the porta of the liver quantity of bile was at once discharged. The in durated adhesions made it impossible to bring the common bile duct over to the duodenum. Hence it was necessary to mobilize the duodenum author succeeded in turning the duodenal fistula back over the stump of the common bile duct and statching it to this stump and to the undersurface of the liver with a circular row of sutures Healing was complete at the end of four weeks. Recovery was rapid and the general condition has now re mained good for a month and a half

The author states that this was the second case in which he was obliged to operate on account of fistula of the stump of the cystic duct, and in both cases the operation was rendered difficult by indurations. He attributes the difficulty chiefly to the repeated attacks over a period of years which had led to severe inflammatory changes and also to the fact that in the end it was impossible to delay operation for the last inflammatory attack to clear up Pre vention of such complications lies in earlier opera tion. The author's chief reason for reporting these cases however was to show the important rôle that may be played by aberrant ducts. Haberer believes that they may explain many hitherto nuzzling cases of peritonitis following operations on the gall bladder SCRUENEMANN (Z)

MISCELLANEOUS

Cohn I Personal Experiences in Abdominal Surgical Emergencies Northwit Med 1928

Cohn discusses spontaneous traumatic opera tive and postoperative abdominal emergencies. The spontaneous emergencies include acute appendicitis perforating gastric and duodenal ulcers gastric hamorrhage due to intrinsic and extrinsic causes subcutaneous hamorrhages hamorrhages of the mucous membranes particularly those associated with splenomegaly and acute gangrenous chole cystitis. The traumatic emergencies discussed are traumatic ruptures of solid viscers particularly the spleen and hamorrhage The operative emergencies considered are conditions arising from unintentional trauma such as injury to the common duct during a cholecystectomy injury of the intestines during an abdominal meision hamorrhage during laparotomies The postoperative emergencies and sliding hernix discussed are intestinal obstruction alkalosis hæm orrhage and rupture of the abdominal wall

In cases of appendicitis early diagnosis and early operation will prevent many of the unfavorable sequelæ In cases of gall bladder disease emercency operations are comparatively rare. In acute chole cystitis if there is evidence pointing to perforation empyema or gangrene operation is an emergency procedure Under such conditions cholecystectomy may prove disastrous Therefore chalecistostom should be done and cholecystectomy postnored until it can be performed with less danger Perfora tion of gastric and duodenal ulcers requires immedi ate operative intervention. The possibility of per foration of the stomach should be considered when in cases with a history of indipestion sudden arite diffuse pain is followed by generalized rigidity with out nausea or vomiting. Gastric hemotrhage may be associated with esophageal varicosities and vari cosities in the stomach or with diffuse hamordage from the stomarh. In the hamorrhoge of purpura harmorrhagica transfusion followed later by pleaectomy will give the best results

Evengt in the case of the bladder, which may be ruptured in fractures of the pelvis rupture of a hollow viscous is uncommon. Rupture of a sold viscous such as the liner or a Rupture of a told viscous such as the liner or a Rupture of a told viscous such as the liner or a Rupture of a told viscous such as the liner or a Rupture of a told viscous manifestation. There is no evidence of shock until farmorthage has been severe. There is no evidence of shock until farmorthage has been severe. The commendation of the performance of the performanc

One of the most interesting of all surgical energies as that which occurs in the course of a operation for an apparently simple indirect ingunal berna when instead of a size extensive adhesion are found Moschowitz suggested that in such cases another increase in the control might be made along the outer both approximation of the course of the course

Himmorthage during the course of a laparotomy may render the operation very difficult. A good er posure is necessary to discover the bleeding point. The abdomen should not be closed until all bleeding has been controlled.

Postoperative emergencies may be divided and three groups (i) those that develop immediately after groups (i) those that develop after groups (ii) those that develop after from teneth or to forty-eight hours such as acute towarms following colorestatement and (ii) those that develop still later such as alkalous these faceal fields and even that the colorestatement of the colorestatement

LeWald L T The Roentgenological Dagnosis of Diaphragmatic Hernia Am J Ro Igenol 1928 XX 423

The author discusses not only the relatively infequent acquired traumatic herina of the disphragm but also congenital mallorimations which in some respects simulate disphragmatic herina. The diferentiation between these conditions may be of medicologial as well as surgical importance. The hamorthage occurred A third laparotomy revealed the source of the bleeding to be a ruptured follicle of the left ovary The adness were removed but the patient died from ethaustion

Histological examination of the ovaries showed a tissue rich in cells with numerous corpora fibrosa and rootated small cysts a corpus luteum harmor rhagica in the right ovary and a corpus luteum in the left ovary. Neither the tubes nor the uterine mucosa showed any changes of pregnancy

The author concludes that in every case of appendicts attention should be paid to the uterine adnexa and the incisions so made that if necessary an operation on the adnexa may be performed after the operation on the appendix

MENDEL (Z)

EXTERNAL GENITALIA

Norris C C and kimbrough R A Jr Relaxa tion of the Anterior Vaginal Wall Am J Obst & Gynec 1928 xvi 675

Relaxation of the anterior vaginal wall is of fre quest occurrence Cystocele is much more common in stout than in thin women and the intra abdomi nal pressure is probably much greater in the former than in the latter

One of the most frequent and annoying symptoms of relaxation of the anterior vaginal wall is partial incontinence especially upon straining or coughing lacotinence is rarely if ever present unless highester is injured. Incontinence may be marked when the vesical lesson is relatively insignificant. The reverse also may be true.

Not infrequently the vagual mucos covering the potenter portion of the urethin becomes hyper trophed. The hypertrophy may occur alone but is a ordinan accompanient of existed in the bars no relationship to the integrity of the sphunder. Flu ordecepie examination and roentgenogerams taken with the bladder filled to capacity with an opaque with the bladder filled to capacity with an opaque to the constraint of the tensor than the power of the po

To cure incontinence due to relaxation of the sphincter the relaxation must be recognized and the antenor coloporthaphy modified accordingly. Post operative \(\) ray examinations are of great practical statements.

value in revealing the degree of restoration obtained Vooret type of operation is applicable to all ease. Care in the selection and the performance of the operation is of the utmost importance. Absolute karmostassa is essential. A small harmatocele insignation in the particular in the proposition of the particular in the proposition of the particular in the proposition of the particular in the particular

RUSHINGRE in discussing this report stated that one way of dealing with relaxation of the sphincter is to take up the slack by reefing sometimes with a lezzar catheter in the urethra

Rawis stated that a cystocele cannot cause an injury to the vesical sphincter by dragging or pulling

as the sphincter is anterior to the ureteral ridge and the trigone the most fived points of the bladder. The vessual injury and the injury resulting in urethrocele occur at the same time as the injury causing the cystocele. Incontinence of urine cannot be due to sphincter. A funnel shaped urethra in a cystogram does not always indicate a urethrocele or that an operative procedure other than a cystocele operation is indicated.

MISCELLANEOUS

Zondek B and Aschhelm S The Hormone of the Anterior Lobe of the Pitultary Cland Its Preparation Chemical Properties and Bio logical Effects (Das Hormon des Hypophysenvor derlappers) Dar téllung chemische Eigen Chaften biologische Wirkungen) Ahn Wehnschr 1928 VII 821

The authors give a detailed report of their results with the hormone of the anterior lobe of the pitul tary prepared by themselves. These supplement the facts established in their earlier implantation experiments which have been confirmed by other investigators.

The anhabitory effect upon ovulation resulting from the continued injection of the expressed junce of the pituitary which was reported by Long and Exans is ascribed by the authors to overdosage With regard to the lutenization and the formation of atretic follicies the findings of Long and Evans are in agreement with those made by the authors. The test object used by Zondek and Aschheim for the hormone of the antenur lobe of the pituitary may be a supported by the control of the pituitary and another movement and the movement and the movement and the control of the pituitary and in the movement and the control of the pituitary and in the movement and the control of the pituitary and in the movement and the control of the pituitary and the control of the control of the pituitary and the pituitary and the control of the pituitary and the pituitary and

The signs of centrus in the infantile vagina fire quently rin such a rapid course that they may be overlooked if smears are not taken very frequently. The effects must begin one hundred hours after the beginning of the injections. Macroscopically the appearance of bleeding points in the follicles and microscopically the finding of attentic follicles be

sides ripening of the follicles will be characteristic The hormone of the antenor lobe of the pituitary can be derived from the urine of pregnant women from which it is obtained with the ovarian hormone In the first two months of pregnancy the urine con tains from 3 000 to 5 000 units of the pituitary to gether with 300 to 600 units of the ovarian hormone t unit of the hormone of the anterior pituitary lobe being the amount which has the power when divided into six portions to produce the characteristic re action in an infantile white mouse weighing from 6 to 8 gm after one hundred hours) In the third to seventh months of pregnancy from 3 000 to 6 000 units of the anterior pituitary hormone) in addition to from 5 000 to 7 000 units of ovarian hormone are excreted and in the seventh to tenth months from 2 000 to 3 000 units of pituitary hormone and from 6 000 to 10 000 units of ovarian hormone are excreted Hence the most favorable time to obtain

GYNECOLOGY

UTERUS

Hinselmann II The Diagnostic Value of Colpos copy (Die Leistungsfachigkeit der Kolposcopie) Klis lich ischr 1948 vii 1188

The colposcope devised by Hinselmann may be used for

- I The early clinical diagnosis of carcinoms of the portio In more than forty cases Hinselmann ob served white areas of mucous membrane on the portio in which microscopic examination showed a typical epithelium with not rarely an infiltrating growth that was not connected with the glands Where such an infiltrating growth with otherwise atypical epithelium was not demonstrable in these cases a carcinoma in a still earlier stage was present The colposcope permits recognition of such very minute (fractional part of a millimeter) carcinomata at the beginning of their invasion. It reveals also atypical and essentially changed areas of epithelium in which as yet no cancerous invision is demon strable. It aids in the discovery of abundant material for histological examination in the early stages of cancer
- 2 Fxamination of the vaginal mucous membrane in cases of leucorrheea Colpitic changes are frequently to be found when nothing abnormal i visible to the naked eye
- 3 Observation of contractions of the uterus es pecially under the influence of drugs 4 The study of the formation and expulsion of
- secretions of individual cervical glands
 5 Examination of cervical vaginal and vestibular mucous membrane in local diseases
- this micros memorane in local caseases.

 Hinselmann has tried out colposcopy for three years and has found it of great value especially in the early diagnosis of carcinoma of the portio

Masson J C and Simon II E Fistula of the

Fixtula of the uterus is relatively infrequent as a postoperative complication. The diagnosis can be mostly as the complication of the diagnosis can be mostly as the control of the diagnosis can be mostly as the control of the diagnosis can be mostly diagnosis can be control of the dia

Criscitiello M Jr Hyperplasia of the Endo metrium with a Report of Cases New E gl nd J M 19 8 excix 1034

Hyperplasia of the endometrium is described and nine cases are reported

The author states that hyperplasa does not represent endometral changes in normal mension ton and has nothing to do with so called hyper plastic hypertrophic or polypord endometries. It is due to an ovarian disturbance rather than to infection and hence is not an inflammator reaction. The treatment must be selected with this fact is ment of the condition and of more coloration ment of the conditions and of more coloration.

Beauto See May 18.

Gelpi M J A Review of Various Methods of Treatment of Carcinoma of the Cerix At tendant Primary Mortality and Fi e Year Cures R diology 1928 21 403

The author states that radom irradation as expecially suitable for the transment of carcinoms of the cervix and that surgery should be limited to the early stages of the condition. A cure is obtained by radium irradation in 45 per cent of the easts and bradien irradation in 45 per cent but there is a difference in the primary mortality of the two procedures

In discussing the prevention of carcinoma of the cervix Gelpi emphasizes the importance of correcting lacerations endocervicitis metaplasia and erosions

ROLAND S CROW M.D.

ADNEXAL AND PERIUTERINE CONDITIONS

Orth O Intra Abdominal Bilaterat Ovarian Hæmorrhages (Intra abdominelle beidersetige Ovariablutungen) Zentralbl f Chi 1928 lv

To the small number of cases of ovanan hamor rhage following appendectomy that have best reported in the literature of 10th adds a case of his on The patient was a woman twenty five jears of age with an empyemen of the appendix should be the time of operation was just about to report tion there occurred a uterine hamorites which was believed to be meastivated as the straight of the following the magnitude of the following the straight of the straight

After the second laparotomy the patient's condition improved but twenty four hours later another

KABOTH (G)

markable, in view of the extensive pathological changes and the consequent radical surgery that is necessary in the cases of colored women. It indicates quite conclusively that the colored woman has a greater resistance to trauma and infection than the white woman.

A greater frequency of chancroid and condyloma is to be espected among colored women. Vaginitis on the other hand is decidedly less frequent than among the whites

From a third to a half of all colored women over fifty sens of age have shrouds Submucous shrouds admonyment and endometriomata are less fire quent than the other varieties. In from 80 to 90 per cent of the cases the tumor can be palpated abdown analy without difficulty. More striking than the size and multiplicity of the growths however is the uniformity with which colored women seem to women the control of the tumor. The control tumor sometimes of the tumor. The control tumor sometimes of the tumor is the control tumor is the control of the control of the safe complication but the author has seen two as a rare complication but the author has seen two as a fire complication but the author has seen two safe in which it occurred. Total hysterectomy is not an infrequent operation because infection of the certar is common

Carcinoma of the uterus is rather more frequent in colored women than in white women. Operation is performed in certainly not more than i per cent and in an appalling number of cases only palliative treatment is possible. The colored patients exhibit an unusually high incidence of ugly complications.

especially fistulæ
Carcinoma of the breast is likewise more frequent
among colored women though the mortality which
the author believes is mainly surgical is consider

ably less.

Obstetrical injuries with the single exception of fatula are decidedly less frequent in colored women than in white women as would be expected in a race which bears its children largely without mechanical of Since shipingities is an accepted cause of ectopic pregnarcy one would expect the latter condition to a comparably more frequent in colored women.

sheress it is slightly less frequent.

The incidence of abortion and premature labor in rolored men is considerably higher than the hospital records indicate. The incidence of stillbirth is 3 per cent higher than among white women that the gradient of the provider of th

Eclampsia is 15 per cent more frequent in colored women and its mortality rate is 11 per cent higher than in white women life women. Higheremesis is less frequent but the mortality rate is only 25 per cent less than among white women.

Why plecenta praise should be more frequent among white somen than among colored women is among white somen than among colored women is impossible to say though the markedly higher mortality in colored women—the difference is 2 2 2 per cent—a easily explained by the fact that the Aegro is more likely to ignore the initial harmorrhage particularly if it is not severe and therefore is more particularly if it is not severe and therefore is more

likely to be infected prior to admission to the

Chronic and acute appendicitis are both several times more frequent in the white race but their mortality in the colored race is considerably higher. In the colored race gall bladder disease is less fre quent and gall stones are decidedly rare. Nephro lithnasis is also infrequent among negroes

E L CORNELL M D

Ward G G The Treatment of Pelvic Infections Pennsyl ania W J 1028 xxxii 63

Ward states that in 15 per cent of cases of acute infection of the pelvic organs due to promothera or following labor or abortion recovers will result with out treatment. The genococcus is responsible for about 75 per cent of pelvic infections and in 70 per cent of such cases the infection in the tubes will ultimately become sterile. The operative mortality is much highest in cases in which operation is per formed while the tubal infection is still active than in those in which it is performed after the infection has subsided. The greater the length of time devoted to pre-operative convalescence the greater the chance of performing a conservative and reconstructive operation rather than a radical and

destructive operation
Paramentrius will often resolve without abscess
formation at let alone. If pus forms it may be
absorbed—frequently with preservation of function
of the pelvic organs—if the quantity is small. The
formation of exudates is often due to too ready
resort to curretage or other intra uterin manipula
tions at the onset of a uterine infection. Many case
of pelvic infection are operated upon unnecessarily
or too early the result being that the infection is
corrected or disseminated. Roward Cons. Will.

Clute II M Cystocele at Middle Age Treated by the Interposition Operation New England J

ifed 1918 excix 994 The author reports sixty three cases of cystocele and uterine prolanse treated by the Watkins interposition operation with satisfactory results in go 56 per cent of the patients traced. In two cases the results were unsatisfactory. In another instance the pathological report on the uterine scrapings five days after the operation revealed carcinoma of the fundus and a complete abdominal hysterectomy was performed after vaginal freeing of the uterus There were two deaths a mortality of 3 17 per cent One death was due to pulmonary embolism which developed on the fifteenth day after the operation while the patient was on her way home from the hospital The other occurred on the sixth day after the operation from peritonitis probably originating in the endometrium which was exposed by partial hysterectomy preceding the interposition operation

The chief complaint in the two cases of unsatis factory results and in the eighteen cases with satis factory but imperfect results was persistence of the the bormone from the urine is during the first eight weeks of pregnancy but at any time it is easier to isolate the hormone from the urine than from the

nituitary itself or from the placenta The urine acidified shightly with acetic acid is concentrated to about half its volume in purpo at a temperature of 40 degrees C and then filtered with ether for the removal of the ovarian hormone which is more soluble in ether than the pituitary hormone The portion of the material which is not dissolved in ether is then subjected to dialysis as the hormone dialyzes more rapidly than the other unnary con stituents As soon as the urinary pigment no longer dialyzes the dialysis is stopped the dialyzed fluid is again evaporated to dri ness in racuo at a low tem perature the residue is further cleansed by re peated shaking out with ether and the remaining yellowish white powder is used in solution

In contrast to the ovarian hormone the hormone of the anterior lobe of the pituitary gland is not thermostable being injured even by a temperature of 60 degrees. It is markedly sensitive to strong acids and alkalies and is insoluble in lipoid soluble media. For the purpose of standardization it is well always to use from six to eight animals at the same time If the effectiveness of the pituitary hormone is not evi lenced macroscopically by bleed ing points and corpora lutea the ovaries must be subjected to senal section for possible evidence of at retic follicles etc

Un to the present time the authors have been unable by injection of the hormone to achieve runture of the ripened follicles such as occurs after the implantation of fresh nituitary glands. Other vise their findings in juvenile normal animals after the injection of I unit were the same as after im plantation while in ovarectomized juvenile animals there was no effect. After continued injection into intact juvenile animals cestrus and growth of the uterus resulted but not a permanent cestrus such as follows the con much injection of folliculin After constation the appearance of the mucous mem branes was similar to that of pregnancy with poly poid growth cedema and abundant formation of mitoses in the epithelia. The simultaneous injection of folloculin led to permanent erstrus. In adult mice continued injection caused an almost monstrous en largement of the ovaries permanent distrus and marked fat formation in the luteinized ovarian In sexually matured animals no longer showing cestrus cestrus could be induced again with the sex hormon as in the Steinach experimentsthe animal could be rejuvenated In future experiments attempts will be made to determine whether maturation of the follicles can be produced in the pregnant animal by injection of pitintary hormones as by the implantation of fresh anterior

pituitary lobe In male animals but only after the irjection of 3 or 4 units for several days marked enlargement of the epididy mis slight enlargement of the test,s and cock's comb like distention of the seminal vesicles resulted In castrated males no such effect was seen In these experiments also anterior pituitary bor mone proved to be the more important factor

Drips D G and Ford F A Irradiation of the Ovaries and Hypophysis in Disturbances of Menstruation J Am M 1st 1928 tcs, 1358

The continued study of a group of cases of primary oligomenorrhoes and amenorrhoes and of mesor rhagia and metrorrhagia has confirmed the impres sion that in both conditions there is an essential ovarian hypo-activity

The occurrence of spontaneous remissions and the variable results of all forms of treatment ald difficulty to the evaluation of a new method

Low dosage trradiation of the ovaries or hypophysis offers an additional therapeutic measure in intractable cases. In those in which it has been used it has given a comparatively high percentage of favorable results in view of the severity of symptoms and regulation when attained has continued over a relatively long period

In experimental studies which are still incompete an attempt was made to gauge amounts of roentgen rays for application to the ovaries of white rais which might be comparable to low-dosage irradiation in the human being. Certain immediate variations in the estrual cycle without disturbance of fate regularity were obtained. In most instances fe tility was not affected. The second and third genera tions of the irradiated rats were normal. It w s not possible to demonstrate precocious sexual de elopment of immature rats by irradiation of the hypophysis with varying amounts of roentgen tavs

Miller C J A Comparative Study of Certain Gynecological and Obstetrical Conditions as Exhibited in the Colored and White Races 4m J Obst & Gync 1928 X11 662

The negro race does not adapt itself well to the strain of city life Under urban conditions its natural fecundity is slowly decreasing and in the last quarter of a century its birth rate which was formerly far in advance of the wh e buth rate was about 40 per 1 000 less than that of the whites

According to the statistics of the Chanty Hospital of Low sana pelvic di ea e is about twice as fre quent in colored women as in white women, and in probably 90 per cent of the cases in colored wome the disease is or specific or gin largely because of the high incidence of gonorrhoza in colored males and the frequency of promiscuous sex relations in the colored race. In colored women infections of the lower general tract seldom remain local and tend to be more severe than in white nomen because colored women do not seek rehef until they are forced into the hospital by pain and incapacity Obviously operation must be done in the great majority of cases probably 90 per cent The fact that the colored mortality rate i only o q per cent higher than the white mortality rate is rather re

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Lundwall k. The Reaction of the Body in Preg nancy (Ueber the Reaktionslage des Koerpers in der Schwangerschaft) Arch f Gynack 1928 CXXXIV 158

This article begins with a general consideration of the development of the concept of disease from the theory of an anatomicohistological individual predisposition to recognition of the functional reac tion capacity of the organism. The synthesis of this development represents the normal as well as the diseased organism as a morphologicofunctional unit This conception is applicable also to obstetrics and gynecology especially to the changes which are brought about in the body during pregnancy The previously accepted theory of the action of a toxin in the pregnant organism is no longer tenable since we have learned how the organism reacts during pregnancy The difference in the reaction is the expression of a difference in sensitivity and func tional response of the cellular apparatus to toxic substances this constituting the reaction capacity of the body in relation to function and demand

The resistance of the organism is dependent upon the condition of the mesenchyme the so called reticulo-endoth hal metabolic system latter depends the general bodily reaction capacity te the constitutionally caused and conditionally modifiable type degree and rapidity of reaction This system is not a rigid anatomical structure but essentially a functional structure with great adapt ability and power to change a fact which explains the extreme importance of the mesenchy mal cells in all defensive and adaptive processes. The im portance of these cells is manifested experimentally in the nature of the storage processes and the degree and rapidity of the effects of storage ie the in tensity of the cellular reaction to stimulation. An insight into the reaction capacity of the pregnant organism can therefore be obtained by determining how the reticulo endothelial system reacts to similar stimuli I revious investigations along this line were carried out chiefly from the morphological viewpoint. In this article the author reports studies of the capacity of pregnant and non pregnant women to store ferri oxidatum saccharatum

Aumerous experiments regarding tissue storage which were critical with I felifer with saccharated lion, on assimals showed great differences in the issue storage depending upon the munuer in which the solution of prepared and the manner in which it was introducted. It is necessary however to use a method which is independent of the products of metabolism and of the blood katabolists since in critical metabolism requires a different evaluation created metabolism requires a different evaluation.

The investigations show a distinct difference in the storage capacity of pregnant and non pregnant organisms as well as a marked increase in the reaction canacity during pregnancy

In the author's experiments which were carried out on fasting women to c m of blood were removed and then with the needle still in place 50 c m of a 4 per cent solution of ferri oxidatum saccharatum were injected. Four minutes after the injection blood was withdrawn from the arm and centrifugalized in parafined tubes. The himmoglobin free serum thus obtained was then tested for iron. The iron content was determined by a microchemical method developed by the author in collaboration with Zechner.

Twenty women wer used for the experiments seven non pregnant women in the intermenstrial period eleven normal pregnant women in the ninth of tenth month of pregnancy one normal woman in the second month of pregnancy and one woman suffering from hyperemesis in the fifth month

After the injection the non pregnant women showed a more marked increase in the quantity of iron than the women in advanced pregnancy. On the other hand the woman in the second month of pregnancy showed a value between that of the women in advanced pregnancy and that of the non pregnant women. Elsewise the woman with hyper measus in the fifth month of pregnancy had a higher value than the non pregnant women. Even when an increase of about 25 per cent in the blood volume during pregnancy is taken into account the iron experience of the contract of the pregnant women. Accordingly the storage capacity of the pregnant women accordingly the storage capacity of the pregnant women accordingly the storage capacity of the pregnant women.

ably increased While the storage test alone is of importance it demonstrates only partial function of the reticulo endothelial apparatus-for example the storage capacity may be normal but the other cell function may be reduced (Schuettenhelm Aschoff) The Laufmann test of the local reaction capacity of the cells of the blood vessel walls and the subcutaneous connective tissue is necessary for conclusions regard ing the condition of the organism as a whole This test depends upon a qualitative study of an exudate of the skin brought about by the use of a cantharides plaster From the percentage composition of the cell picture conclusions may be drawn regarding the finer reactive processes in the tissues. The character of the exudate cells is indicative not of the type of the disease but of the immunobiological strength of the organism and therefore of its reaction capacity

The author's investigations with this test made

on eighty five women yielded the following results

bladder symptoms From these and similar cases reported by others the author concludes that all women with marked prolanse should be subjected to a prological examination and if infection is found should be treated for that condition before and after the operation

In Clute's opinion the Watkins interposition operation is the salest and best procedure for uterine prolapse and cystocele. It is of value particularly in the cases of obese women and as it can be per formed under spinal analgesia in those of women suffering from asthma or bronchitis. When the patient has not reached the menopause she should be stenlized Partial amputation of the uterus with interposition of the remaining portion is dangerous on account of the possibility of infection. If the cervix is hypertrophied and elongated it should be amputated before the interposition. In all cases a peripeorrhaphy should be done to provide adequate E L KING M.D. nermeal support

Fruhinsholz A The Indications for Operation in Cases of Lutein Cysts Associated with Hydati form Mole (4 propos des indications opératoires lifes à l'existence des l'astes lutérniques coincidant

avec une mole bydatiforme) Gynte et obit 1928 XVIII 193 There is a difference of opinion as to the signifi-

cance of latein cysts a sociated with hydatiform mole and their effect on the prognosis of the latter condition The author reports two cases which bear upon these questions

The first case was that of a woman twenty four years of age who was under observation for a verand was subjected to repeated thorough examina tions The induction of abortion was necessitated by the hydatiform mole A large latein cyst was found in each ovary. One cyst was the size of the head of a fetus. The cysts persisted in spite of subinvolution of the uterus but retrogressed when complete involution followed exploratory curettage The second case was that of a woman twenty five

years of age in whom lutein cysts of both ovanes developed without a macroscopic mole evidentifrom a microscopic mole. Curettage was followed as in the first case by involution of the uterus and

retrogression of the cysts The author concludes that it is not necessary to operate in every case of mole associated with large cysts even when the cysts persist two and a half months after expulsion of the mole or even when there is a suspicious uterine discharge. The discharge may be caused by subinvolution or n or dinary infection and uterine involution with retto gression of the cysts may be brought about by late When bilateral ovarian cysis are assocurettage crated with enlargement of the uterus and mensional disturbances in the absence of a demonstrable nove a microscopic mole may be present. In such cases operation should not be performed except as an emergency measure until it has been determined whether an exploratory curettage will bring about involution of the uterus and retrogression of the APPREY G MORGEN MD cysts

Nub a considerable increase of colloid lability there are usually found both a relatively los blood choics term value and a considerable delay in the elimination of the diese. Ethicks a label, de reaction in the serum is almost regularly positive in both normal and pathological pregnancy it probably indicates only a colloidal transformation in the blood milieu in pregancy and does not justify the assumption that the positive reaction is specific for the presence of urboilinogen.

The authors conclude that the almost regular demon tration of urobilin in the serum and urine during pregnancy together with an increase in the bilirubin value and the frequent appearance of urobilinogen in the urine is evidence that during pregnancy the function of the liver differs from the normal

Schoenig A Estimations of Calcium In the Blood Serum of Mother and Child (Kallbestimmungen im Plutserum von Mutter und Kind) Monatsschr f Geburtsh u Ginack 1028 Ixxviii 32

The investigations reported in this article were carried out according to the technique of de Waard with which the author found the calcium content of the blood serum of normal non pregnant women to be from 105 to 115 mgm per 100 c cm of blood

Suty women were examined most of whom were in the muth or tenth month of pregnancy. The values ranged from 7 to to 11 15 mgm and averaged 915 mgm per 100 c cm of blood serum. The same values were found in two women in the sixth and stretch mostly of the same values.

seventh months of pregnancy The author rejects the theory that this lowering of the calcium content of the blood is due to a trans ference of calcium to the fetus. In support of his opinion he cites the work of Wehefritz Kehrer and Schmitz He believes it improbable that the daily slight loss of calcium by the mother to the fetus is not replaced by the calcium ingested with the food Moreover he calls attention to the fact that on the sixth and seventh days of the puerperium-at a time when calcium is lost as the result of lactation and drainage of the lochia-the blood calcium values correspond with those of the non pregnant state or are even higher The cause of the diminution in the blood calcium ceases to be effective at the moment of delivery Therefore if the transference of calcium to the fetus is not the causative factor the secondary changes in the maternal organism produced by the pregnancy must be reponsible The cause may be in the calcium-excreting organs (intestines and kidneys) and the calcium regulating organs (endocrine glands and vegetative system) The literature shows that it is not a loss of calcium that diminishes the calcium content of the blood but displacement of the calcium due to the tissue and metabolic changes in the mother produced by the fetus Attention is called to the decrease in the blood calcium in cedema due to cardiac insufficiency and after injections of adrenalin

According to the author's theory of the regulation of calcium metabolism the pitutary which hyper functionates during pregnancy everts through its pedicle a direct effect on the centers of the vegetative nervous system in the midbrain (Beald Mayer Trendelenburg) in the sense of increased stimulation of the sympathetic nerve. The parathyroid glands are influenced by way of the nerves and retention of calcium results

In simultaneous examinations of the maternal and infantle blood the author found regularly higher blood calcium values in the infant. In the infant the average value was 1 g fingm per 100 cm of blood and the highest and the lowest values were 14 0 and 11 2 mgm per 100 ccm. The maternal and infantlle concentration of calcium showed no definite relationship to each other Especially the placenta manufamed the differences in the concentration. Therefore the theory of a free exchange of the sails through the placenta according to the laws of cosmosis must be rejected. In this connection the investigations of vio Octungen are

The author was surprised to find that the blood of the mothers of boys showed higher values of calcium than that of the mothers of girls (namely 0 42 mgm as against 9,0 mgm per 100 c cm) I nimpare and multipare also showed a difference the value in the former being 92 mgm and the value in the author that is not supported to the same and the value in the author this indicates an adaptation in multipare to the repeated demands of pregnancy Box. (5)

Sserdjukoff M and Morosova A The Calcium Content of the Blood at Different Stages of Pregnancy and in Toxicoses and Puerperal Diseases (Der Calciumgehalt des Blutes bet verschiedenen Penoden der Schwangerschaft Tow kosen und Nachgeburtserkrankungen) Monatischr f Geburth u Gynaek 1938 Ixvun 237

This article begins with a historical review of the literature on investigations of the calcium content of the blood of pregnant women and the rôle to be ascribed to the calcium in the organism as regards the eneve muscle system. The calcium regulates the alkali and balance in the body and also the colloidal balance of the body albumin which influences the stability tumescence and dispersion of the proto plasmic cells and thereby the vital functions of these cells.

The authors own investigations included 216 cases totaling 311 examinations with the micro method of Pincussen a modification of the Kramer Tisdall method. The calcium values found expressed in milligrams per 100 c. cm. were as follows

	Lowe t	High t	А гаде
Healthy non pregnant females	9 00	13 7	11 25
First half of pregnancy	9 44	13 0	11 18
Second half of pre-nancy	9 24	13.5	11 46
Dunne labor	9 96	11 5	10 73
I uerperium	9.59	12 5	11 02

In the cases of non pregnant women the average number of monocytes constituted 3 8 per cent of all cell forms found whereas in normal pregnant nomen the percentage varied from 75 to 18 Dur ing labor it sank to 4 3 and in the third week of the puerperium reached the normal value of 3 1 While more or less marked variations were noted in the individual curves in these cases in the cases of hyperemesis an clustic rebound of the monocyte curve after a sudden rise-for example from 17 to 12 per cent-was noted more frequently. In two cases of columpsia and one severe case of hyper emesis there was no skin reaction or vesicle forma From these observations the conclusion may be drawn that on the one hand there is a marked elasticity in the reaction adaptability of the organism and on the other hand the reaction capacity of the organism is better the stronger the reaction of the reticulo-endothelial system

The increase of function in pregnancy consists not only in an increase in the absorption capacity of the individual cells but also in an active new forma tion of cells whereby otherwise quiescent storage areas become activated. The increased reactivity and permanent hypertrophy particularly of the parenchymatous organs during pregnancy can be explained only by the adaptation and new formation of cells. As long as the organism is unable to provide cells which are adapted to specific function its metabolic and defensive powers will be weak. This explains why primigravidae especially in the early stages of pregnancy frequently suffer severe dis turbances and toxicoses while multigravide have a sort of immunity derived from previous pregnancies This was evident from Benda's tests of the reaction canacity of primigravide. The greater incidence of pathological conditions in primigravidæ is due not to their youth but to the fact that it is their first pregnancy

The theory of insuficiency of the metabolic and exerction organs in normal pregnant women is based upon faulty conclusions from incorrectly studied material in a similar manner it may be explained with intercuption of pregning during the course of an infection is seldiom beneficial and fre quently harmful since by the infection there is brought about a sort of blocking of the temporary

functional reserve power
The development of eclampsia and all other toxicoses of pregnance must be considered from the
same point of view. The theory of a single cause for
eclampsia to based on the fact that organs that are
impaired flore reample the Authors and the livest
always show sings of the first although the beginning
of the organ. There is not to be found in these in
facted in the same way by eclampsia; I can
hadeve the same way by eclampsia is that
shows changes characteristic of eclampsia. Accord
angly eclampsia to the maintenance of the overtaxiation of the metabolic and circulatory or
gens and not of the formation of a torus by the fetus
against and the contraction of a torus by the fetus

The fact that it is not the fetus but the reaction capacity of the pregnant woman that is re possible for the development of touctoses is prosed by the occurrence of eclampsis during the purposum. Therefore the treatment should not be the removal of the fetus and placents but prophilactic detail measures or when the eclampsis has already developed measures to refere the ordinaries and measures for immunization (the administry and measures for minimum the administry and measures for menuration than the development of the control of the contr

Eufinger II and Bader C W The Function of the Liter in Pregnancy 1 Storage of Dre atuffs in Pregnancy (Die Leberfunktion in der Scha angerschaft I De Farb toffsprichering in der Schwais gerschaft) 1rch f Gynock 3355 CXXXII 720

All methods of studying the reticule endot ends system confirm Ribbert's demonstration of a prone capitity of certain mesenchymal cells to stee die The list to undertake a large series of eyenneds with regard to the reticule-ordibulis system rhuman pregnancy was Benda. With the Congret method Lundvill obtained results dimetrically opposed to those of Benda. Naujoks Jound is the toucouse of pregnancy a distinct retriation of the

storage of dyes The lack of agreement in the results obtained by these investigators led the authors to undertake re searches of their own in which they followed care fully the method of Reimann and Adler in coung from 12 to 14 c cm of a 1 per cent solution of Congo red intravenously. In each case they estimated simultaneously the bilirubin content of the blood by the van den Bergh method carried out Ehrlich's alde hyde test in the serum and unne and determined the urobilin in the serum and urre by the fluores cence test with Schlesinger's reagent A total of 100 healthy pregnant women were examined and in addition a large number of women with toxicoss The findings show that in the early stage of preg nancy the speed of elimination is approximately normal Beginning with the sixth month there is 8 distinct progressively increasing retardation relative as well as absolute in the storage process whi b reaches its maximum in the last month of pregnancy and during parturition. In the first days of the puerperium the storage speed returns to its onginal

Of the cases of toxicosis of pregnancy those of hyperemesis and icterus of p egwancy acre dis inguished by an especially marked delay in clim mation. In nephropathy and eclampain the results

The proce's of elimination of dies is not dependent solely on the state of the reticulo-endotherial system but is influenced to a large degree by the physicochemical structure of the reaction miles.

timeal line. It was somewhat flattened but other wise was normal even being surrounded by abundant peritanal fat. The vessels were engorged and some of them seemed directed to the origin of the common line artery. Recovery was uneventful

This anomaly has been observed several times Ia most cases it has had no effect on the pregnancy but is some instances it has caused abortion. In one case reported nephrectomy was necessary on account of hydronephrosis

In fourteen cases' reported the kidney interfered with labor I inten the labor was terminated without accident. In the four others, it was terminated respectively by nephrectomy by the vaginal route rupture of the uterus embryotomy and createran.

After considering all of the methods proposed for dealing with this condition (transplantation of the kidney premature induction of labor symphysicolomy) the author concludes that the best procedure is cervical cesarean section.

ALBERT F DE GROAT M D

Pickles W and Jones S S Regional Anæsthesia in Obstetrics New England J Med 1928 CXC1X 988

The authors describe the neuro anatomy of the region of the sacral nerve review the literature on sarral nerve block and describe the various methods by which this type of anæsthesia is induced. They have adopted the epidural method and report

twenty-eight deliveries in which it was employed The injection is made through the sacral hiatus which is bounded laterally by the sacral cornua and above by the fourth sacral spine and is covered by the sacrococcygeal membrane After anasthetiza tion of the superficial tissues an unbreakable spinal needle is introduced through the membrane and advanced until it touches the anterior wall of the sacral canal when it is slightly withdrawn its di rection is changed to accord with that of the sacral canal and it is then advanced 3 or 4 cm After with drawal of the stylet aspiration is done and if blood or spinal fluid is obtained the needle is withdrawn slightly until no such flow occurs. When it has been definitely ascertained that the point of the needle is not in the dural sac or in a vein 40 ccm of a r per cent solution of procain without adrenalin are slowly injected Anasthesia is usually complete in from ten to fifteen minutes and lasts about two

Of the thenty-eight patients whose cases are reweed twenty six were primipaire. Anaethesia was
complete methy six I no one case the needle
ideal to enter the canal and in another a bony
deformity six the superior difficult and only
partial anothersa of one and one half hours duration was obtained in five cases the labor outlisted
the anothersa of one and one half hours duration was obtained. If he we cases the labor outlisted
the anothersa The average duration of spontaneous
labor was jume minutes. The extremes were
mattern and unterly minutes. In the cases of primi
pars the spectrom was generally given when the or

was fully dilated and in those of multiparæ when there was a dilatation of 6 or 7 cm. Most of the patients required continual urging to persuade them to use their abdominal muscles. There was no untoward reaction of importance and no increased tendency toward postpartum hæmorthage.

The chief disadvantage of the method is the fairly short duration of the anesthesia. Procain poisoning did not occur in any of the cases reviewed. The authors attribute such poisoning to injection of the

procain into a vein

The chief indication for the method is a condition contra indicating general anisthesia such as loxemia or a heart lesson. The method should not be used if the patient is irrational or non cooperative or there is an infectious process near the proposed site of injection.

E. L. King M. D.

Pitkin G P and McCormack F C Controllable Spinal Anaesthesia in Obstetrics Surg Gynec & Obst 1028 xlv11 713

The authors review eighty nine cases of delivery

Gliadin (the muclaginous content of wheat starbly is injected with the anaesthetic solution to prevent mixing of the latter with the spinal fluid before it has been absorbed. When a small amount of solution is injected into the substractionoid space it is confined to the lower portion of the spinal canal and anaesthetizes only the sacral nerves with resulting anaesthetizes only the secral nerves with resulting anaesthesia of the perineum the inner side of the thighs for 5 or 6 in and the region from the symphysis in front to the lower part of the sacrum in the rear. The cervix vagina and vulva and the sphinters of the anis and bladder are completely anaesthetized while sensation of the uterus is not impaired.

The gliadin lessens the toxin symptoms of the novocain. If too much gliadin is used in the solution the induction of an esthesia fails or is greatly delayed whereas if too little is used the anaethesia

cannot be controlled

The patient is placed on her right side and the head of the delivery table is raised from 15 to 20 degrees. She is never allowed to lie entirely flat or in the Trendelenburg position as in these positions the heavy solution may ascend high in the canal producing a drop in the blood pressure nausea wom time and headache.

After the skin and the interspinous ligament have been injected with a solution of novocain (0 013) ephedrine (0 5) and normal salt solution (q s 1 3) the puncture is made between the fourth and fifth lumbar vertebrae with a No 22 gauge lumbar punc

ture needle with a short bevel of 45 degrees.
When clear spinal fluid starts to come away a syringe is attached to the needle and a solution of

syringe is attached to the needle and a solution of novocam (o.2) gladon solution (o.3) strychmus sulphate (o.022) glucose (o.05) and normal salt solution (q.3 o.5) is injected On withdrawal of the needle the wound is covered and the patient turned on her back. Anasthesia results in from ten to

During factation there seemed to be a tendency toward a decrease in the values

Like all previous investigators the authors found that the calcium content in the blood from the umbilical cord is greater than that in the maternal blood ranging from 10 8 to 18 mgm and averaging 13 54 mgm per 100 c cm In the amniotic fluid the values ranged from 5 56 to 9 44 mgm and averaged 7.37 mgm per too c cm The values always re mained the same in the same woman before and after labor and in the first half of the puerperal period In contrast to practically all previous in vestigators the authors noted no decrease of the calcium in the blood in toxicoses of pregnancy (except in chorea in the second half of pregnancy in which the value was 10 2 mgm per 100 ccm) Even in eclampsia they found uniform hypocal carmia. Only in isolated cases did they see a reduction in the calcium content, and this showed no relationship to the number of the attacks or the severity of the disease. Only in the nephropathy of pregnancy was there a regular diminution of the calcium from the normal the average value being 8.44 mgm per 100 c cm and in these cases eclamp sia did not develop. In local diseases of the oner perium of slight severity the calcium values remained about the same or showed only a slight reduction. Severe disea es of a sentic or nuemic nature were associated with a marked diminution of the calcium content of the serum to as low as

9.45 mgm per 100 c cm % a result of their investigations the authors conclude that the calcium balance during pregnancy and in the toricoses of pregnancy has no decisive significance Bock (G)

Davidson A M The Use of Morphine in Eclamp

Davidson states that the great diversity of opinion among the leading obstetricians regarding the use of morphine in eclampsia is to be expected masmuch as the etiology of eclampsia is still unknown. There is as yet no absolute proof of any of the many etiological theories advanced. It is possible that eclampsia is due to the excessive production of a normal hormone of pregnancy the function of which is to soften the genital tract to facilitate delivery Excess of such a hormone acting upon tissues other than those for which it is intended would cause adema and a further excess would interfere with hidrey function and ultimately irritate the central pervous system causing convulsions cyanosis and death. The source of this toxic hormone is believed to be the placenta. As yet no method is known by which the formation of the hormone may be pre It is belie ed that any factor which in creases the metabolic rate of the mother will increase the output of the toxin and that conversely any factor which will decrease the metabolic rate of the mother will limit the output of the town

There is little in the literature regarding the effect of morphine upon metabolism and very little infor mation regarding the normal changes in the near bother rate due to pregnancy. Studier has show experimentally that in normal animals morphies increases the carbon-dioxide combining power of the blood. Accordingly morphine tends to countr act scidosis. Cushny and Clark has shown this morphine has no effect upon kidney function exert when it is given in enormous does but causes a slowing of peristalisis. The resulting interferese with climation may be overcome by laving of the

stomach and colon, as recommended by Fürgiblen. Thus and others have shown that the convul use of celampsia are preceded by a sudden drop in the blood sugar. Therefore the use of morphise to prevent convulsions seems justified since in this manner the violent mu cular activity which will further dimmish the glycogan reserve in the liver and further dimmish the glycogan reserve in the liver and prevented. Childhey states that morphise lowers the reportatory rate causing a loss of glycogan which would appear a contra indication to its or be the convulsions themselves may impede repiration and faciently to causes applysis and sel lons secondy more discinctly to cause applysis and sel lons secondy more discinctly to cause applysis and sel lons secondy more discinctly to cause applysis and sel lons secondy more discinctly to cause applysis and sel lons secondy more discinctly to cause applysis and sel lons secondy more discinctly to cause applysis and sel lons secondy more discinctly to cause applysis and sel lons secondy more discinctly to cause applysis and sel lons secondy more discinctly to cause applysis and sel lons secondy more discinctly to cause applysis and sel lons secondy more discinctly cause applysis and selections.

phine given to after the respiratory rate senously. The conclusion may therefore be drain a bit provided lavage is carried out there is no continuidation to the use of morphine in the convolutionary of the continuitation by kidney function is much less than as formerly the lieved. Morphine is of inestimable value in redoning muscular effort in quieting the mare of the patient, and in tending to prevent the numerous secondary effects of the convolvious.

SAMUEL J FOCELSON M.D.

LABOR AND ITS COMPLICATIONS

Ramos A P Congenital Ectopic Klóney as a Tumor Prævia in Labor (La dystopic rénae congénitale comme tumeur pravia dans l'accouchement) Conf. et abril 1923 XVIII 97

ment) Cyple a solid 1035 xviii 97
In the course of the routine examination of a prampara in the eighth month of pregnarcy the cerus was found deviated to the right side of the pelvs. The presenting h ad was high in the pelviand displaced to the right if the left eight cul de sac a flattened tumor the size of a mandent orange could be felt on the posterior wall the pelvis below the promovitory. Slight mobility suggested that the tumor had a short pedicit

Several diagnoses were considered the last one being ectopic kidney. Cisloscopy revealed nothing abnormal but on catheterization of the luterit feelft ureter was found very about 30 cm in length. The function of both kidneys was formal lyelog aphy demonstrated clearly an ectopic kidney lodged in the superior strain.

The treatment was expectant but when labor began it soon became evident that the tumor would continue to obstruct the birth canal The patrit was therefore delivered by cervical createran section. The kidney was found to embrace the left il opec

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Wesson M B Pyelography California & Il est Wed 1928 XXIX 207

I'en years ago pyelography was considered a dangerous surgical procedure Today because of the harmlessness of the reagents used and the suc cessful sales talk of cystoscope salesmen many general practitioners make their own pyelographic examinations

I selography is ordinarily a simple procedure but cystoscopy is not Complete anuria and death may

follow urethral instrumentation

The use of warm or hot water as an irrigating medium causes fogging of the lens and softens the catheters As the bladder is relatively insensitive to cold water the irrigating solution should never be above room temperature

Catheters are ruined by sterilization by being stored in a container connected with a receptacle of formaldehyde by boiling and by prolonged soak

ing in bichloride of mercury solution

i welve per cent sodium jodide has been found to be a harmless and satisfactory pyelographic me dium The use of 15 to 25 per cent sodium bro mile as a pyelographic medium is associated with danger and discomfort

Double pyelograms are necessary in order that the two kidneys may be compared Bilateral bizarre shipes are congenital but a unilateral bizarre shape

indicates a pathological condition

Double pyelograms can be made with impunity in any case in which bilateral ureteral catheterization has been done

The injection is most satisfactorily accomplished by the gravity method with the use of two burettes hell in a stand at a height of from 18 to 24 in above the patient. When the fluid stops running the kidney pelvis is filled. The injection requires from one to five minutes

When a syringe is used there is generally over injection which spoils the pr ture and causes di comfort for a few hours. This is true also when a gravity burette is held by a nervous or impatient a satant

The author reports six cases in which a pyelo graphic examination was made. The first was a case of diverticula of the bladder with reflux to a left 1 vonephrosis In the second there was hydro bephrosis of the right kidney due apparently to an abetrant arters and the passage of catheters had causel anuma of the normal left kidney th id tase a small stone was found in an uninfected non functioning Lidney and a staghorn stone in an infected functioning kidney. In the fourth case over injection resulted from 24 in gravity pressure the solution praying out through or between the

tubules. In the fifth case in which there was bila teral proses of the kidney a unilateral prelogram led to nephropery and four years later the kidney had resumed approximately its former position. In the sixth case there was a calcified hæmatoma

Louis Consc. M.D.

Gibson A G Pyelitis and Pyelonephritis Lancet 1028 CCTV 003

Gibson divides 114 cases in which he studied the kidneys at autopsy into two groups (1) 72 cases with no obstruction to the outflow of urine and (2) 42 cases with such obstruction. He concludes from his findings that by far the most common infection of the kidney substance in man is an infection through the blood stream This type is found in 77 per cent of all cases of renal disease whether urinary obstruc

tion is present or not From a study of the clinical records of the cases reviewed Cubson found that pyonephritis may occur (1) as mild attacks which pass without notice or perhaps with only slight discomfort (2) moderate attacks which are attributed to what is ordinarily termed acute pyclitis (3) septica mic attacks simulating typhoid or other grave conditions and (4) fulminating attacks in which the kidney may become gangrenous and death is

The type of kidney inflammation which is caused by repeated attacks of pyelonephrosis and scarring and is called atrophic pyelonephritis is not so clearly recognized by physicians as by urologists In the author's series of cases there were eleven of this type. The condition may occur on one or both sides. The kidney is small contracted and fibro ed In extreme cases no kidney substance may re

I yelitis an inflammation of the inner lining of the pelvis of the kidney is ordinarily considered a common lesson but Gibson found that in purulent and semipurulent infections of the kidney it was very uncommon in the absence of obstruction though it occurs in about 50 per cent of the cases when obstruction is present. Therefore he believes when obstruction is present that many cases of so called pyelitis are cases of pvelonephritis

Pyelitis as an anatomical lesion occurs in tuber culosis of the Lidney nephrolithiasis gonorrhæa

and all ascending infections

The state of the urine varies considerably in pyelitis and pyelonephritis Frequently it gives very little aid in the diagnosis and in some instances the absence of abnormality in the urine may divert attention from the kidney even when there is a localized nurulent infection of that organ. This is apt to be true e pecially in cases of acute infarctions in the cortex HENRY L SANFORD MID

twelve minutes. After the injection the patient is kept on her back with her head slightly raised for from one and a half to two hours.

If anasthesia is desired higher on the body surface it is induced by aspirating and re injecting

2 4 or 6 ccm of the spinal flud On account of the ease of introduction of the solution and the rapidity of its effects this type of anaethesia is better than cualitor scaral anesthesia. It has none of the complications of inhaliation anaethesia. There is no shock or drop in the blood marketsia. There is no shock or drop in the blood and dilutes rapidly and the perincum relaxes to that version, the apolication of forceps etc are greatly

facilitated
Controllable spinal angesthesia is indicated in the cases of women with tuberculosis pneumonia asth ma emphysema cardiac decompensation diabetes eclampsia acidosis pyelitis and evere anamia.

Piller H ARNOT W D

NEWBORN

Munro D Cranial and Intracranial Damage in the Newborn Surg Gynec & OS 1 1928 xlvn 622 Postmortem and microscopic studies in forty five

of fifty-six primarily fatal cases of cranial and intracrinial damage in the newborn showed that the most common pathological entities were meningeal and intracortical lauvorthage congestion and cedema Gross intracranial hemorrhage may occur from

Gross intracranial hemorrhage may occur from the rupture of large venous sinuses. The most com mon sites are the great vein of Galen and the lateral sinus. Forty-eight of the fifty-eight babies which were dis barg d from the hossital living and the regwere followed up. Thirty mae may be regarded as cured. Five are still too young to allow a satisfactory e timation of the end re ult.

The most common late result of cerebral damage in the newborn is hydrocephalus associated with epileps, or idiocy Convulsions alone and spasticity associated with idiocy have also occurred.

In the cases reviewed lumbar decompression as done after recovery from the surgical shock In sidh ition parental blood was given inframusculiny in the cases of haemorrhagic disease. Depressed factures were devated as soon as possible 'tenfresiar puncture and a typical subtemporal decompression were done twice.

RELYS S. GOO MD

MISCELLANEOUS

Hahn M The Treatment of Syphilitic Mothers and Children in Welfare Stations [Fourseftbehandlung der leutschen Unetter und Kinder) Zitzler f G bu i h u Gynock 1013 with 295 318

The author discusses the various mea ures thir mut be employed in welfare work for spikitize mothers and children. In making the diagnoss is the case of the spikitize mother of making assistance of any hard recompision must be avoided. The sum should be a legal regulation making assistance of any hard the report restored to the control restored in the control rest

trenty four year histors of hematuria which was probably due to disturbances of the renal circulation resulting from kinking or compression of the renal circulation resulting from kinking or compression of the renal distance of the control of the renal size of historia some since hematuria and the demonstrated chemically in the concretions. Around the couglat there are deposited as the result of changes in the surface tension amorphous unc acid and crystalloids of unknown form or albuminous masses including bacteria in the sense of colloid precipitation.

JANSEN (2)

Cahill G F and Gile II II Calculous Anuria

J Am M iss 1928 xci 1970

Calculous anuna occurs under the following four conditions (1) when both ureters are blocked () when one ureter is blocked and the other is unde veloped of has been removed or destroyed by disease veloped in the been removed or destroyed by disease of a double kidney becomes blocked and (4) when one kidney is blocked and the other fails to secrete

It is most frequent in middle age and occurs more often in males than in females. The symptoms are pun and anura followed first by dryness of the skin nausca sleeplessness and gaseous distention of the astroniorism and tract and later by drowsiness nausca ordema of the evelids twitchings convulsions and sometimes blunders.

The treatment is nephrotomy and drainage through a lumbar incision on both sides if necessary under nitrous oxide oxigen anisothesia. After this operation the condition returns to normal in two months.

BELINIES FORLITE MO

Campbell M F Ureteral Obstruction in Infancy im J Surg 1928 v 445

Urteral obstructions particularly congenital structures are not uncommon in children and may be structures are not uncommon in children and may be the underlying cause of persistent urmany tract in children to the underlying causes the similarity of obstructive scions of the urmany tract in children to those found in adults. By modern urological methols they can define all underlying the desired produced clinically, and treated surgically underlying and underlying the desired produced continuity.

with surgery for relief of the obstruction. When the obstruction is recognized and treated early the patient may be spared irreparable renal destruction and in many cases years of suffering or an early death. C. TRAYER STIPTIAN U.D.

Coffey R C. Transplantation of the Ureters into the Large Intestine Surg Grice & Olst 1928

In an article of considerable length profusely disstrated the author takes up in detril the fundamental punciples involved in the tran plantation of the turcters into the large intestine. He then traces the throaten to the large intestine. He then traces the throaten to the development of the operation and discusses the types of oj cration and the dating his own. He defines the problem in this

work and reviews much of the experimentation which has been done in the development of a satis factory technique. The technique of the operation as now performed is described in minute detail and the complications to be guarded against in the post operature course are pointed out. The records of a number of cases in which the operation was per formed successfully are presented.

In conclusion Coffey says that now for the first time he feels justified in recommending this operation for general use by the skilled surgeon for any condition in which it is necessary to dispense with the bladder as a reservoir for urine

JOHN G CHFETHAM M D

BLADDER, URETHRA AND PENIS

Frontz W A Submucous Fibrosis (Localized Cystitis) South W J 1928 vx1 899

This article deals with the relatively uncommon form of cistitus first reported by Hunner in 1913 as elusive ulcer of the bladder. The symptoms arrout of all proportion to the urinary and cistoscopic findings as the ulcer may have disappeared entirely and the process may be limited to the deeper layers of the bladder wall.

The predominant and constan symptoms are unrary frequency, and pain the former in many cases amounting almost to incontinence. The pain which is caused by distention of the bladder is suprapuluic and usually severe and cutting in character. In many cases there is a history of hematurna following overdistention of the bladder and noted only during a single working.

A constant finding is reduction of the capacity of the bladder to between 100 and 150 c cm or less In many cases the appearance of the vesical mucosa is so little altered that if the condition were not suspected the lesson might not be found. The area of reddening varies in diameter from a few milli meters to several centimeters. If the bladder is overdistended the formerly intact mucosa covering the lesion may be the site of bleeding fissures When the urine is clear the fissures heal promptly I he diagnosis is rarely very difficult. It is suggested by the history of long continued urinary frequency associated with suprapubic pain on overdistention of the bladder and becomes practically certain when there is no urinary obstruction and no patho logical elements can be found in the urine. The characteristic pathological change is a fibrosis of the submucosa. The mucosa rests on a dense scirrhous layer instead of the normal loose areolar tissue When the deeper bladder layers are involved the lesson is thick walled

Teure can be obtained only by surgical extingation of the lesson. Recurrences may develop at the original site or elsewhere in the bladder. The author employs deep foliguration under anvisthesia before recording to more radical surgical measures. Before the bladder treatment is begun all foci of infection should be eradicated. Cathor D Hours M D Vorth est Med

352

Crosbie 4 H Pyelonephritis

Pyelonephritis in its various forms is the most common condition seen by the prologist. The term

common condition seen by the urologist. The term pyelonephritis should include all cases of pyelitis. Acute pyelonephritis in an otherwise normal kidncy tends to become cured. In cases of recurring

attacks however slight a prelographic examination should be made. If the attacks recur in kidneys that have leen proved otherwise normal a search should be made for sources of infection such as devitalized teeth infected tonsils and intestinal stasis. Pain is not a constant nor a rehable symptom in

either simple pyelonephritis or pyelonephritis de veloping in an abnormal kidney i yelonephritis in an abnormal kidney—that is in the presence of stones or a kink of the ureter—may entirely destroy

the Lidney without causing localized pain

In every case of pyelonephritis the urinary sediment should be examined after subsidence of the symptoms. If erythrocy less leucocy less or bacteria persist a pyelographic examination should be made A kidney rarely becomes destroved without the appearance of evidence of its destruction in the urinary sediment.

Rudnick D F Bilateral Renal Tuberculosis End Stage with Scierosis and Calcification J Ural 1028 xx 625

Four types of renal tuberculosis can be differentiated (1) tuberculosis of the kidney without X rav signs (2) chronic ulcerative tuberculosis of the kidney (pelvis calvees and ureter) (3) cement kidney (Moertelniere) and (4) calcified tuberculosis of the kidney

In the first type the urine usually shows tubercle bacilli long before the \times ray findings become positive and there may be extensive destruction of the kidney parenchyma before deformity of the nelvis or calves can be demonstrated

In the ulcerative type the pyelogram shows changes in the pelvis and calvees

In the cem at kidney the diseased areas are filled with caseous material in which calcium is deposited Calcified tuberculosis of the kidney is a healing or

localized tuberculosis with calcification
The \tag shadows of tuberculous lesions of the
kidney must be differentiated from those of \((1)\) cal
cult \((2)\) by dronephrosis and promephro is \((3)\) pars
nephrine absects \((4)\) perinephritis \((5)\) cystic kid
ney \((6)\) a calcified blood clot in the pelvis \((7)\) a
calcified angurism of the renal artery \((8)\) tumors of

the kidner and (o) bilhariansis. The author reports a case of blateral renal tuber culosis in a man forty tears of age. Five years per yound; the patient had developed a cough and tubercle bacilli were found in the spatium. After teatment in a sanationum for a vera the spatium became negative for tubercle bacilli. Six months after entering the sanatorium the patient began to have frequency urgency and slight burning with consistent motion of the left kidner.

was greatly reduce! the unne from the left sale contained tuberch bacili and the pjelogram of the left kidney showed enlargement and parenchymal destruction. Shortly thereafter tuberche bacilli were found in the unne from the right kidney bat the pjelogram of this kidney was norm.

The patient refused operation left the sanstemans and went back to work. During the eartier within his blood pressure rose from 120-14 to 260-19. Are examination of the unnary tract at the of of that time showed calcification of the left bidner and a beginning of the process in the right kindle Cystoscopic examination showed a normal stretch of efflux from the right unferted orifice but now the sans the contraction of the sans the

the left side.

In conclusion the author states that schrous subsubsequent calcification of the kidneys is not an
uncommon afternath of real culerations. If
usually occurs in one kidney but may be bilited.

The case reported in this article presented at its
tensitic clinical course. It demonstrates the recesity for flat Y-sa plates in case presenting or siggesting possible real involvement and case of
abdominal conditions of an obscure nature just
trailarly those with a history of openine intel
ference without benefit. Cause D Hosters MD.

Troeltzsch J Albuminous Stones in the Rend Pelvis An Attempt at Their Histochemical Decomposition (Liwess Science im Kierenbecker Versuch ihres histochemischen Abbaus) In 6 j ural Chir 1923 III 448

In the case reported in the art cle the child diagnosis was calculous properbirsts of the left saile and hydrosephrosis with stones and unctral calculo in the right side. The development of complete annual fall of operation. A nephrosions was done on the right side after removal of the stone to the part of the stone on the right side after removal of the stone but the patient ded from remain insufficiency.

but the patient died from renal insurcency. Autops, evended bilateral fithosophous Is the left pelvis and ureter there were ter alkumined stones and in the lower portion of the right user there was an oxalite stone the sic of a ship played the social terms of the sic of a ship played the social terms of the sic of the

Only a few reports of concretions of organisative have been made in the literatur relationship the sare cited in detail. In the authors case the concretions found in the left kidney varied in see from that of a pen to that of a cherry and in color from a rellowish brown to a graysta worke. They expected to covid and of the consistency of found beans. In the center there was a hard firm settled brown in the surrounded by soft concentrally.

rranged glassy laters
The results of the chemical h tological and
Cristallographic examinations of the albumnous
bodies and of the attempts at their is techemical
decomposition in six he read in the original

In discussing the genesis of the stones in this case the author rifes the fact that the patient gave \$

twents four year hi tory of hæmatuma which was probably due to disturbances of the renal circulation resulting from kinking or compression of the renal veins from downward dislocation of the enlarged kidney Such hamaturias are regarded as the cause of albuminous stones since hæmatin can be demon Around the strated chemically in the concretions coagula there are deposited as the result of changes in the surface tension amorphous uric acid and crystalloids of unknown form or albuminous masses ncluding bacteria in the sense of colloid precipita IANSSEY (Z) tion

Cahill G F and Gile H H Calculous Anuria J Am M tss 1028 xc1 1070

Calculous anuria occurs under the following four conditions (1) when both ureters are blocked (2) when one ureter is blocked and the other is unde veloped or has been removed or destroyed by disease (3) when a single fused ureter draining both kidneys or a double kidney becomes blocked and (4) when one kidney is blocked and the other fails to secrete

It is most frequent in middle age and occurs more often in males than in females The symptoms are pain and anuria followed first by dryness of the skin hausea sleeplessness and gaseous distention of the gastro intestinal tract and later by drowsiness nausea ordema of the eyelids twitchings convul

sions and sometimes blindness The treatment is nephrotomy and drainage through a lumbar incision on both sides if necessary under nitrous oxide oxygen anæsthesia. After this

operation the condition returns to normal in two BENJAMIN F ROLLER M D Campbell M F Ureteral Obstruction in Infancy Am J Surg 1928 v 445

months

Ureteral obstructions particularly congenital strictures are not uncommon in children and may be the underlying cause of persistent urinary tract in fection with marked destruction of the kidnes. The author emphasizes the similarity of obstructive lesions of the urmary tract in children to those found in ad. Its By modern urological methods they can be diagnosed clinically and treated surgically Medical measures are of value only in conjunction

with surgery for relief of the obstruction

When the obstruction is recognized and treated tails the patient may be spared irreparable renal destruction and in many cases years of suffering or an early death C TRAVERS STEPITA M D

Coffey R C Transplantation of the Ureters into the Large Intestine Sirg Gynee & Obst 1929 zlvu 593

In an article of considerable length profusely illustrated the author takes up in detail the funda mental principles involved in the transplantation of the ureters into the large intestine. He then traces the chronological steps in the development of the operation and discusses the types of operation ante dating his own. He defines the problem in this

work and reviews much of the experimentation which has been done in the development of a satis factory technique The technique of the operation as now performed is described in minute detail and the complications to be guarded against in the post operative course are pointed out. The records of a number of cases in which the operation was per formed successfully are presented

In conclusion Coffey says that now for the first time he feels justified in recommending this opera tion for general use by the skilled surgeon for any condition in which it is necessary to dispense with the bladder as a reservoir for urine

JOHN G CREETHAM M D

READDER URETHRA AND PENIS

Frontz W A Submucous Fibrosis (Localized Cystitis) South M J 1928 TXI 800

This article deals with the relatively uncommon form of cystitis first reported by Hunner in 1013 as The symptoms are elusive ulcer of the bladder out of all proportion to the urinary and cystoscopic findings as the ulcer may have disappeared entirely and the process may be limited to the deener layers of the bladder wall

The predominant and constan symptoms are urinary frequency and pain the former in many cases amounting almost to incontinence. The pain which is caused by distention of the blidder is suprapubic and usually severe and cutting in character. In many cases there is a history of hæma turns following overdistention of the bladder and

noted only during a single voiding

A constant finding is reduction of the capacity of the bladder to between 100 and 150 c cm or less In many cases the appearance of the vesical mucosa is so little altered that if the condition were not suspected the lesion might not be found. The area of reddening varies in diameter from a few milli meters to several centimeters. If the bladder is overdistended the formerly intact mucosa covering the lesion may be the site of bleeding fissures When the urine is clear the fissures heal promptly The diagnosis is rarely very difficult. It is suggested by the history of long continued urinary frequency associated with suprapubic pain on overdistention of the bladder and becomes practically certain when there is no urmary obstruction and no patho logical elements can be found in the urine. The characteristic pathological change is a fibrosis of the submucosa The mucosa rests on a dense scirrhous laver instead of the normal loose areolar ti sue When the deeper bladder layers are involved the lesion is thick walled

I cure can be obtained only by surgical extirpa tion of the lesion Recurrences may develop at the original site or elsewhere in the bladder. The author employs deep fulguration under anæsthesia before resorting to more radical surgical measures Before the bladder treatment is begun all foci of infection should be eradicated CLAUDE D HOLMES M D

1918 xt 1968

In uncomplicated cases of stone in the bladder the stone may be removed by incision or litholiapax. Litholiapax is contra indicated when the stone is very lirge and the bladder is small holding less than 125 ccm and when the nucleus of the stone is a foreign body which cannot be crushed. If may be contra undicated also when the urethra is small but

as a rule a urethral structure can be divided. In borderline cases hitbolapaxy should be thred before the bladder is opened. Berysure F. Roller M.D. Hunt V.C. The Surgical Treatment of Mallgnant Tumors of the Bladder. J. Am. V. 151 1928 XI. 1704.

Ninety five per cent of malignant lesions of the bladder are epitheliomata of varying degrees of malignancy More than half are highly malignant (grades 3 or 4) irrespective of their situation Lesions of the base of the bladder tend to be more malignant than lesions of the lateral walls and dome The mortality rate of surgical procedures is de pendent upon the site of the tumor the magnitude of the operation and in lesions of the base of the bladder the method of disposing of the ureter. The mortality is lowest following the excision types of operations employed in the lateral walls and dome and highest in segmental resection for tumors of the base with re implantation of the ureter which is hardly a justifiable procedure Division and ligation of the ureter has proved the best m thod when the ureter is involved in the lesion and when the operation is performed for an extensive operable tumor of the base

A study of approximately 370 cases of epithelioma of the bladder in which curative surgical procedures were carried out indicated that the results are dependent upon the situation of the tumor its extent and its degree of malignancy. In general irrespective of the size or situation of the tumor approximately 65 per cent of the patients with malignant lesions graded 1 or 2 are living and well three years after the operation while of those having radical opera tions for lesions graded 3 or 4 approximately 35 per cent obtained equally good results. When the site of the growth is taken into consideration the results of surgical treatment of tumors of the lateral walls and dome are nearly twice as good as those of the base the degree of malignancy being equal Approximately 73 per cent of patients with tumors of the lateral walls or dome graded 1 or 2 and 42 per cent of those with tumors graded 3 or 4 are living after three or more years while so per cent of patients with tumors in the base graded i or a and 2, per cent of patients with tumors graded 3 or 4 have survived without recurrence for the same length

of time

It is apparent that the merit of various surgical
procedures and physical ag ints used in the treatment
of malignant tumors of the bladder may be judged
and accurate results of treatment ascertained only

if cases are analyzed in terms of patholog) the degree of the malignancy the site of the lesion and the extent of the involvement. Not all patients can be cured but a higher percentage of good results may be obtained by surgical than by any other methods

Davis D M Epispadias in Females and Its Sur gical Treatment Surg Gynec & Obst 1918 zivu 680

Davis discusses the embryological origin of spis padias in the female and reviews six cises of the condition. He classifies previous methods of treat

- ment as follows s Plastic operations (a) external plastics in which the external genitalia were restored to a con dition as near normal as possible and the urethra was repaired by the excision of portions of its reducdant wall unward for a variable distance but not far enough to include the sphincteric muscle of ite bladder and (b) internal plastics in which the repair was carried upward to include the region of the internal sphincter the vesical orifice and a por tion of the anterior wall of the bladder Later the chief requirement was believed to be lengthening and narrowing of the urethra for oxed b the lo mation of a bend or kink in its course. While in many cases the immediate result was good in on timence recurred a few weeks later after a be deare of the orderna and inflammatory reaction around the urethra
- 2 Recting operations Restoration of the urethra was attempted by means of recting sutures appled through the urethral walls This method was not successful.
- 3 Muscle plastic operations. An attempt \$25 made to supply a new sphincteric apparatis by transplanting a voluntary muscle in the form of a ring around the urethra. Good results were some times obtained.
- innes obtained

 the urethre. An effort ass made to surge to surge to the control of the urethra and colese apposition by freeing the urethra up to its attachment to the bidder tousing it through an arc varying from or to 480 degrees and suturing it into plue a, and it is control to the outer and. In some cases this operation the other collection of the collection of the

5 Cauterization This was not successful.

o Interposition of the uterus. This was done only once. The vesicovaginal lascia was shortered by a recening procedure and the patient sterilized by reserving the patient sterilizing the patient in order to cure tra-padias. Transplaintation of the uterers. This procedure.

is unnecessarily severe and radical.

8 Obliteration of the urethra and the establish

ment of a suprapulor fistula. In the a the opinion the operation is not worthy of discussion. In the method advocated by Davis a two-stage operation the first stage as a plastic repair of the

defect including (1) wide exposure of the affected areas (2) sufficient excision of excessive mucosa under the control of vision (3) careful suture of the halves of the defective internal sphincter muscle over the anterior aspect of the newly formed vesical onfice and (4) diversion of the urine during the pened of healing by a drainage tube in the bladder The second stage which is usually unnecessary is Deming s gracilis muscle plastic operation

GILBERT I THOMAS M D

Anderson A E Stricture of the Female Urethra Northuest Med 1928 xtv11 520

The author reviews the etiology pathology symptoms and treatment of stricture of the female urethra The condition is not rare but there is con siderable difference of opinion as to its incidence Inflammations are regarded as the chief cause Trauma is also an important factor A thorough urological examination should be made in all cases The three cardinal signs of the condition are fre quency urgency and dysuria Elimination of the causative factor is necessary Dilatation supple mented by local treatment is the only measure giving C TRAVERS STEPITA MI D

GENITAL ORGANS

Aittis S Pyretotherapy in the Treatment of Gonorrhoa by Inducing Aseptic Abscess Yew England J Med 1928 exerx 1041

The author has endeavored to cure refractors cases of gonorrhoea by the production of a con tinuous fever A series of eleven cases were treated by an injection of o 5 c cm of turpentine into the thigh which caused the formation of an aseptic abscess lever and pain. An apparently complete ture was obtained in seven cases from one day to one week after the injection. In the four other cases the results were less definite

Nittis believes that in recent acute uncomplicated wethritis local conservative treatment is to be pre ferred to procedures causing a general reaction and incapacitating the patient for some time but that in cases with complications the production of an aseptic abscess is an excellent means of shortening the period of incapacity and at the same time favor ably influencing the outcome of the infection

HEYRY I SAYFORD M D

Young II II Medical and Surgical Problems in Prostatic Obstruction New England J Med 19 8 CXC1X 859

The active part played by the trigon in micture tion explains the trigonal hypertrophy associated with median bar prostatic growths. The muscles of the togon become hypertrophied in their effort to pull the growth down and open the internal sphincter

Prostatic hypertrophy is associated with carei noma in 10 per cent of cases Frequently the carci noma is not found in the enucleated prostatic mass because there has been no invasion

The author recommends sacral or caudal anas thesia for prostatic surgery He injects a 3 per cent solution of procain or novocain into the epidural space introducing the needle by way of the sacral notch He states that in the radical operation com plete urinary control may be preserved by anasto mosing the bladder with the stump of the urethra and preserving the nerves to the triangular liga ment thus keeping the external sphincter intact Of twenty seven patients upon whom the radical operation was performed by Young 62 per cent were hving and without recurrence five years after the operation

In cases with congenital valves of the verumon tanum associated with enlargement of the ureters and hydronephrosis the punch operation is very effective. For such cases Young uses a miniature punch Most infants with this condition are uramic and require the same careful pre operative treat ment as adults with obstruction

The chief factor in the mortality of prostatic obstruction is injection. In the control of injection mercurochrome injected intravenously has been found very effective. Except in fulminating cases in which large doses are given to c cm of a 1 per cent aqueous solution per 100 lb of body weight are in)ected CARL R STEINE M D

Retterer E and Alexandescu G The Structure of Testicular Grafts Four Years and Five Months Old (Structure de greffons testiculaires datant de quatre ans et cinq mois) J d'urol méd el chir 1928 xtv1 113

A Russian engineer met with an aviation accident which disabled him for seven years During the last two years he became sexually impotent. On January 6 1924 Voronoff grafted four pieces of chimpanzee testicle into the tunica vaginalis. After this operation the patient was able to resume his work and his sexual function was re established At the beginning of the fifth year his condition began to deteriorate again and on June 4 1028 another transplantation was performed and the first grafts were removed for histological examina

fron The transplanted pieces of testicle had somewhat Their structure was completely decreased in size changed The central part constituting the greater portion of the graft had become necrotic cortex had survived and had become vascularized for a depth of from 0 5 to 2 mm but the original tissue was changed In some of the tubes the epithelial lining had become reduced to a single layer of flattened cells Other tubes had become cords The latter were made up of several layers of cells arranged concentrically around the axis of the The cells consisted of cytoplasm containing several nucles (connective tissue in the first stage of development) The tubes had very fine lumina which were either totally empty or filled with detritus of epithelial cells with pyknotic nuclei. The walls of some of the tubes were made up of connective tissue in the first stage of development and those of others of connective tissue in the second stage of development (fibrous) like that of the stroma between the cords and tubes Accordingly epithelial cells of the seminiferous tubules and the intertubular tissue had not only survived in the cortex of the graft but had eveloped into dense connective tissue

For survival the graft must be grafted into aux able surroundings (serous or vagant)) and the fast base surroundings (serous or vagant) and the pass must not be more than 4 or 5 mm thick so that the plasma and fluids of the host may penetrate them throughout to assure, survival of the cells until blood cessels declop in the grafts As long as these is southern with young connective tissue resulting the properties of the plant of th

continue for four or five years

VERREY G. MORGAN M.D.

MISCELLANEOUS

Hinman F The Surgical Treatment of Lower
Tract Tuberculosis Genital and Vesical J
Urol 1019 XX 121

There is a difference of opinion among urologists as to the probable site of the primary lesson in tuber culosis of the genital trict. Those who contend that the primary lesson is in the epidid mis base their contention largely on the fact that the symptoms improve after simple epididy mectomy. Those who believe that the seminal vesicles and prostate are involved first base their assumption on the following facts.

1 Tuberculous epididymitis alone is a rare con

dition
2 Clinical evidence of tuberculosis of the seminal vesicles or prostate without disease in the epididy mis

is more frequent
3 Symptoms of disease in the vesicles or prostate
often precede the appearance of the disease in the

epididymt
4 in every case of tuberculous epididymiti
there is complete involvement of the globus minor
this apparently arising as the result of extension from

the urethra
5 Tuberculous lesions of the seminal vesicles and
p ostate are frequently found at autopsy without

lesions of the epididemis while lesions of the epididemis alone are rarely found

mis alone are rarely found

6 When the entire genital tract is involved the
lesions of the seminal vesicles and prostate appear

7 Lesions in the globus minor of the epility me appear older and more advanced than those in the

globus major
8 Microorganisms are repeatedly absorbed from

to be more advanced

8 Microorganisms are repeatedly absorbed the urethra and carried to the epididymis

9 Tuberculous epididymitis has been produced experimentally by injuring the epididymis and then inoculating the urethra.

Himman believes the seminal vesicles and prostate are the primary site of the infection

There are two climical types of ge tal t beer, loss (1) that in which the more advanced or one lesion is in the epidodrums and (1) that in which the most sentinal t-weights are involved with or without epidodrumiis. When there are no ac we lesions & & and the radical operation for Type 2 in this vest of the fifty-one cases reviewed the radical operation was done. If the epidogrum is about it of weight with the epidogrum is therefore the epidogrum in the epidogrum is the epidogrum in the epidogrum is the epidogrum in the epidogrum in the epidogrum is the epidogrum in the epidogrum in the epidogrum is the epidogrum in the epidogrum in the epidogrum in the epidogrum is the epidogrum in the epidogrum

In cases with active lesions elsewhere the decision as to the adva ability of surgery and the t pe of operation must be based upon a consideration of the activity and extent of these lesions in relation to the activity and extent of the lesions in the gental

organs
After any form of freatment the patient sho !! be

After any form of restriction to the theory of the theory

HARRY W. PLACCEMENES ALD

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES IGINTS MUSCLES TENDONS ETC

Acute Osteomyelitis in Childhood Huebler O (Ein Beitrag zur akuten O teomyehtis des Kin desalters) li ten med II ehnsehr 1927-1928 lvviii 1456 1490 1521 1559

Huebler has brought together a large number of facts from the literature and from a material of 378 cases of acute osteomyelitis in childhood From the general statistics it appears that acute osteomyelitis is distinctly a disease of the growth period and is most frequent in the first and second decades of life The greatest number of patients examined were thirteen years of age. One hundred and forty two were males. In the majority of the cases the condition began in the warm season of the year clearly because of the increased opportunities for traumatic and bacterial injury afforded by outdoor occupa tions Staphylococcus pyogenes albus (which under suitable conditions-sunlight-easily becomes trans formed into staphylococcus aureus) the streptococ cus the pneumococcus and the typhoid bacillus are known to be exciting organisms of osteomyelitis Staphylococcus aureus is found most frequently The incubation time cannot be determined exactly The average time is between twelve and forty eight

In 20 per cent of the cases observed and reviewed there was primary involvement of the joints. In 70 per cent the osteomyelitis was limited to 1 focus Metastases in the skeletal system were found in 30 per cent The observation made by others that the course of the condition passes through several s ages was confirmed. In 7 per cent of the cases penostitis albuminosa could be definitely demon strated In spite of the formation of extensive sub periosteal abscesses in the e cases cortical sequestra did not form All of the cases of periostitis albumi nosa healed well after wide incision and drainage

Staphylococcus albus was found 15 times and streptococcus and staphylococcus pyogenes aureu only once each

Lyaminations to determine the end result were made in 107 of 232 cases In 64 cases of osteomye litis of the shaft good functional and cosmetic results were obtained even though in 36 per cent measurable lengthening or shortening up to 3 cm and curvatures could be demonstrated. The end results of uncomplicated joint di ease and of meta physeal disease with articular involvement were less favorable almost 90 per cent of the patients pre senting ankylo es and contractures

Huebler agrees with Mayer as to the indications for operation. With regard to medical treatment he states that when correctly used the full vaccine

omnadın renders the clinical course of osteomyelitis milder and less complicated even though it may not cut the process short

Mensor M C Isolated Tuberculosis of the Car pus-Its Diagnosis and Treatment California by Hest Med 1028 XXIX 216

The author has been able to collect from the litera ture only three cases of isolated inflammation of the carpal navicular bone. In only one of these was the inflammation due to tuberculosis

In the case reported in this article there was a history of trauma to the right wrist Immediately after the injury the wrist was splinted for three weeks despite negative roentgen evidence of injury Seven weeks later the pain still persisted and as the patient had a history of pulmonary tuberculosis the wrist was subjected to another roentgen exami nation. No nathological changes were noted. The application of a plaster cast for a month was with out benefit I mally four months after the injury a definite fracture line was seen in the navicular The bone was therefore removed microscopic examination and guinea pig inoculation proved it to be tuberculous After further immobili zation of the wrist for four months, the patient had perfect use of the joint and there was no evidence of spread of the infection

MICHAELL MASON M.D.

Irrmann E Early Roentgen Lesions of Coxalgia and Osteochondritis of the Hip (Les lésions radiolo iques précoces de la covalgie et de l'ostéo chondrite de la hanche) Rev d'orthop 1928 vy

Irrmann describes the differential signs in the roentgenograms of covalgia and osteochondritis of the hip Decalcification is about as frequent in cox algia as in osteochondritis but in coxalgia it is gener ally more marked and does not spare the epiphysis In osteochondritis it is more discrete and the epiphy sis becomes decalcified in only a few cases. There fore the difference in decalcification of the epiphysis is a good differential sign. Otherwise there is nothing characteristic in the localization of the decalcifical tion in the two conditions Condensation of the epiphysis is exceptional in

coxalgia but is quite frequent in osteochondritis. It is one of the most valuable differential signs

Indistinctness of the joint space is noted almost always in both covalgia and osteochondritis but in covalgia the head of the femur is almost always in volved while in osteochondritis it is rarely involved Narrowing of the articular space above with broadening below is frequent in covalgia but occurs usually after the age of seven or eight years while in o teochondritis it generally appears earlier. It is a good sign when it exists but its absence is of no significance.

Simple enlargement of the articular space is rare

in covalgia and constant in osteochondritis There is no absolute differential roentgen sign between osteochondritis and coxalgia before the be ginning of fragmentation and flattening of the enphyseal center of ossification but condensation of this nucleus with flattening and atrophy and en largement of the articular space suggest o teochon dritis particularly when they are as ociated and in agreement with the clinical symptoms. The roent gen igns of coxalgia are not very characteristic ex cept in cases with well marked destructive lesions There is none that is absolutely pathognomonic The diagno is of covalgia is based rather on the ab sence of positive igns of osteochondritis but a defi nite decision cannot be made until the evolution of the di ease has been followed for some time

AUDREY G MORGAN M D

Giacobbe C Therapeutic Pneumarthrosis in Intra Articular I esions of the Anee (II pneu moretro terapeuteco nello lessons endostrecolars del ginocchio) Chir d organs di suosimento 1928 Vi 453

Hemarthrosis is a common sequela of intra articular tesions of the kine such as tearing or dithe insertion of the crucial ligaments. Lecration of the intertion of the crucial ligaments interation of the fair pub. partial disastass to home fragments feature of the semiliane earlings of the kineoutnoss classed by English and French surgeons internal derangements of the kine- In the diagnoss of these lesions roontigen ray examinations of great and especially after the injection of air into the ions.

In a report before the Third International Congress of Military Medicine in Paris in 1925 Carcia stated that the injection of Dakin so offution into the knee jo to in traumatic harmarthrosis was curative because of the pneumarthrosis which resulted from the pressure of gas formed within the joint and

closed the small bleeding points

In the period from May 1926 to December 1927, the author applied Caccas s method in fifty cases of harmathrosis hydrokamathrosis and traumatic hydrathrosis of the kine. The first thirty cases were treated in the first surgical section of the Celio Hospital and the others in the Military Hospital in

Florence (Lincobbe believes that presumanthroses should be undured systematically and immediately in all case of effusion of blong and the second state of the second second from the second second from the second second from the second second from the second second second from the second s

In the induction of pre-marthrosis the skin is disinfected with a 5 per cent alcoholic solution of picric acid the effusion in the joint is emptied as

much as possible by means of a large needle, the joint is washed out with a tept joint not reached prepared Dakus a solution of results prepared Dakus a solution of result injected to fall the joint. The lavage of the joint naw be done with the mouth apparatus employed no pheumolitorax or with a large graduated give pheumolitorax or with a large graduated give pheumolitorax or with a large graduated give which is plugged with cottons of nother than which is plugged with cottons or injection is made in the upper outer ange of the patella.

The quantity of air injected is about equal to be amount of fluid withdrawn from the joint or ingauged by the distention of the joint or the patient's sensation of intra articular tension. Her the injection an \text{\text{Tay exposure in the place's in made at once This gives tertain diagnostic dail but the author discusses only the therapeutic elicit.

of the injection in this article

After the spection the limb is put in a metabar spinit but the next day the spinit a removal and massage of the quadriceps and careful progressed, increased active movement of the joint is begin When all excess heat has left the joint when partial absorption of the spected are has occurred in when there is no contra indication on account of the original lesion walking is usually begin after a week. This method avoids all dangers of visionbilization of the joint continuing blood

The earlier this treatment is given the better the results because when it is applied soon after the right it will prevent the clotting and degoes too of all yes of blood in the synowin recessed it the matter on the irregular surfaces of the fracture. Congluide blood irritates the synowin and prollogist the process by leading to a secondary serous crudate win the development of a his drokmaratition. Organization of congulated blood in the recesses leads to it formation of fibrous adhesion noduces ander them it of the control of the control

synovial fringes

In contesson and simple distortion of the knet point the results are best when the treatment is given within the first inents four hours. In ca et treat early the hemarthro is rarel re forms and layered the joint is usually not required because the blost not jet coagulated. Massage and active and passive movements are begun on the day after the induction of the pneumarthrosis and walkage to gun early to prevent atrophy of the qua discept and to basten the complete return of function.

Good results may be obtained also when the treal ment is not given until four or hie day site; the injury but under such circumstance host claiming of from thirty to such days is necessary and some times the joint tapping must be repeated. In case, not treated until a neck after the tearing the results are less satisfac o y

Giacobbe draws the following conclusions
I Cassia's method of pheumarthrosis is ab o-

lutely harmless
2 It is easy to use

3 The results are better the earlier it is used

4 By means of joint lavage with Dakin s solution septic complications synovitis fibrous hyper plasia and recurrent hydrarthrosis may be avoided 5 Massage and early mobilization prevent at roph and its consequences LELIGGG SPEED M D

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

klischner M. Operative Immobilization in Ver tebral Tuberculosis (Die wirbelversteifende Operation bei Wirbeltuberkulose) Zischr f. Tuberk 1918 l. 196

On the basis of the results obtained in 100 cases of ubterulous spondhits. Airschner recommends all bee sinky operation for immobilization of the vertee the as a method which will permit the patient to returne his occupation in a relatively short time even unthout the prolonged wearing of a supporting corest. Although in most of the cases reviewed the patient was obliged to leave the clinic after a brief stay and to resume his work, after a few months complete healing was obtained in about 50 per cent. By entirely concerned by the control of the control o

The bone into whould include three vertebra above and three below the diseased vertebra. After the operation the patient should be kept in bed for three weeks and if possible should wear a support

ing corset for a year

Arrschner emphasizes the economic importance of the operation but recommends it also for patients in good financial circumstances because it shortens the penod of convalescence Signals (Z)

Lenormant C and Wilmoth P Total Resection of the Tibiotarsal Joint (La ré ection tibio tarsienne totale) J de chr 19 8 xxvii 257

Ollier defined tibiotarsal resection as simultaneous temoval of the lower ends of the tibia and fibula and of the astragalus This operation has to a great ex tent been given up and the terms tibiotarsal resec tion and astragalectomy are considered synony mous The authors review the history of the true libiotarsal resection since the operation was first done by Moreau in 1702 They believe that tibio tursal resection has still very definite indications in infected fractures of the joint and in tuberculosis In tuberculosis of the ankle it does not replace astrag alectom; but is indicated in cases in which the latter operation is insufficient the tuberculosis being ters extensive and involving the external and in ternal mallcoli and the roof of the joint. The typical total tibiotarsal resection gives good results only if the surrounding soft parts are not too much invaded When the invasion of the soft parts is extensive resection must be performed There is also a group of cases between those in which astragalectomy is in licated and those in which amputation is neces sury in which total tibiotarsal resection is extremely useful Two such cases are reported The results were good in both

The first step of the operation consists in an external incision for astragalectomy and removal of the astragalus. The second step is the removal of the sattragalus. After the removal of the sattragalus the foot remains attached to the leg only by the soft parts. It is then displaced invariance should be project through the incision and can be sawed for The wound is explored and any fringen are re-

It has been claimed that this operation results in flail foot but it does not if extreme care is taken in admisting the bones of the leg to the tarsus. The bones should rest on the anterior part of the upper surface of the calcaneum in contact with the scaph old The two cases reported illustrate this point In the first one in which this adjustment was made the functional result was perfect in the second the result was not so good because the hones of the leg rested farther back on the posterior part of the cal rangum and there was a large empty space between them and the scaphoid To maintain the desired position a plaster cast should be applied. The cast should have an opening through which the wound can be watched. The bones may be fixed by a metal wire but suture is not necessary AUDREY G MORGAN M D

TODAL C DISMONT HID

FRACTURES AND DISLOCATIONS

Patterson R H The Internal Fixation of Frac tures and Dislocations by the Use of the Human Fascial Suture 4n: Surg 1928 | txxviii 879

Patterson states that he has used fascial sutures for internal fixation with excellent results in fourteen cases of bone and joint injuries. He reports five cases in detail. The conditions in these five cases were an ununited fracture of the right humerus an ununsatisfactorily reduced fracture of the tibut complicated by two fractures of the fibulia an unsatis factorily reduced fracture of both bones of the fore factorily reduced fracture of both bones of the fore cases of the fore the accommodavicular joint, and a fracture of the clavicle.

Patt C Convox M D

Ravdin I S and Morrison M F Ossification After Fracture An Experimental Study Irck Surg 1928 xvu 813

Ravdm and Morrison studied the healing of fractures of the radius in young normal dogs which had been given 20 cm of cod liver oil daily dogs whose serum calcium was raised by the administration of parathy rod etrract (Colly) and dogs whose serum calcium level was lowered by thyroparathy rodec tomy

From their findings they conclude that no sangle factor is the cause of the majority of case of non union. In one instance, the non-union may be due to the interposition of soft parts in another to in sufficiency of the blood supply at the sate of fracture due to injury or the location of the fracture in another to indifferency of the inorganic constituents of

the blood. They believe that although a deficient inorganic phosphorus or calcium content may be the cause of abnormal or faulty ossification in the growing bone and in certain bone dyscrasias. This factor is a rare one in clinical cases of non-union of fracture. PAUL C. Coloryst. M.D.

Putti V Statistical Research on Joint Fractures
Complete Statistics on the Fractures Treated
at the Rizzoll Institute in the Period from 1899
to 1926 (Ricerche statistiche sulle frature artico
lan Statistica complessiva delle frature curate
dill Instituto Rizzoli 1809 1920) Chir d organi
di mora micho 1038 vii 1809

In the period from 1800 to 1026 2732 fractures were treated at the Rizzoli Institute Bologna Eleven hundred and fifty two (42 10 p r cent) in volved joints

Six hundred and seventy six (24.74 per cent) of the fractures involving joints occurred in the upper limb and 476 (17.05 per cent) in the lower limb

Of the joint fractures in the upper limb 162 (59 per cent) involved the upper criphysis of the himerus 328 (6 80 per cent) the clow and 186 (6 80 per cent) the wrist. Of the joint fractures in the lower limb 242 (855 per cent) involved the neck of the femur 44 (167 per cent) the knee and 190 (695 per cent) the malleon).

The 2 732 fractures were of the following types

	P +		P
S If cto e Sx II Face Cl vici St rm m d h Sc puls V 1 ben P lyr Shoulde H mer Libon	Camtil 1 43 85 3 6 1 1 4 14 3 14 3 15 14 16 5 5 9 8 4 5 3 3 4	St fir t West H of Neck of I m I m K P t i Ler Foot M it pl f act e	C 5 5 1 1 86 3 86 3 4 8 8 3 7 6 4 1 1 6 6 7 2 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6
		KELLOGO SPE	CH ar

Zanoli R Fractures of the Upper End of the

In the period from 1800 to 1036 163 fractures of the upper end of the humers were treated at the Rissoil Institut Bolgons Six (17 per cent) were tractures of the head of the humerures 3 cc per cent) fractures of the head of the humerures 3 cc per cent) fractures of the anatomical net. 3 5 (50 per cent) complexed creating the control of the state of the surgical net with dislocation of the head 5 (5 per cent) epiphysed detachments 3 (8 per cent) solicided fractures of the greater tuberousty and 40 (30 a per cent) fractures of the greater tuberousty with displacement of

Humerus (Fratture dell epifi i superiore dell ome

10) Chie d organi di moviment 1918 xii 445

the shoulder

One hundred and sixteen (71 6 per cent) of the
patients were males. The incidence of the fractures
at different ages is shown ma table. Eighty fixed in
eight tenths per cent of the fractures resulted from

direct violence such as that sustained in a fall on the shoulder. A few were caused by a fall on the elbow or hand

X ray examination showed that 2 of the 6 frac tures of the head of the humerus were incomplete

and 4 were communited

In both of the cases of fricture of the anatomical
neck of the humerus, the fracture plane was oblique.

and in 11 was demant Of the Surpical and Control of the Surpical and Control of the Surpical and Control of the Surpical and Surpical Surpic

In the cases of fracture of the sure cal reck with

dislocation of the head of the humerus the dislocation was primary and the Interture secondary. In o the dislocation was subglemoid and in 6 subcoraci a In 7 cases with subglemoid dislocation and in the 6 cases of subcoracoid dislocation the fracture of the surfaced neck was transverse. In 6 cases the greater tuberosity was pulled off

In 3 of the 5 cases of epiphy seal separat on there

was displacement

Of the 3 solated fractures of the greater tuber out; 2 were partial and 2 was complete. This between 18 usually found as a complicat on of fracture of the surgical neck of the humerus or dislocation of the shoulder.

There were no open fractures Twelve ca.essbosed multiple fractures Vascular and nerve lessons wer rare In case there was paralyses of the radial nerve and in 1 case paralysis of the brach al plerus

associated with a vascular lesson in 8 s 4 per cent of the cases non operative treat ment nas genen Plaster-of Pans der ugs wet used for all recent fractures showing little displace ment. The arm was immobilized at once in hall adduction outward rotation and a slightly furward position. In cases with displacement of fragments the treatment was elastic traction or reduction under

anneshessa with a ra control. The period of immobilisation ranged from truth to thriter dairs. In a cases open operation without of thriter dairs. In a cases open operation without one of the control of simple replacement of the fragment of the surgeous deck with desplacement of the fragment of the control of the contro

Of 113 patients to whom an inquiry was ent 72 replied Thirty nine reported the result as very good

25 as good 6 as fair and 4 as poor The results of non-operative and operative treat

ment were about equally good

Camurati M Fractures of the Elbow (Fratture del gomito) Chir d orgini di movime ilo 1928 vii 452 Camurati reviews 328 fractures of the elbow which were treated at the Rizzoli Institute Bologna in the bettod from 1800 to 120 fle grouns them as follows

Type (t	Ca.	P t l l l ml	Rec nt	611
S pacendyled Die t dyl Of tractor dyl Offen dyl Of pacendyl d dynt	5 37 6	34 4 5 24 28 7 9 6 7	8 3 9	8
emodyloid Fighyse 1 p t Of h d d k f 1 Of beers Of tp oc	7 9	5 79 3 5 79 6 7 4 6	7	8 3

Two hundred and eighteen of the patients were maks. The features were most frequent between the ages of five and ten years and 172 of them were to the right side. One hundred and musty mue (80 of per cent) were caused by indirect violence and 55 (173) per cent) by direct violence. Of the 113 supracondyloid fractures 33 (74 to per cent) by affective violence of the 113 supracondyloid fractures 34 (74 to per cent) by a consideration of the process of the victima of the 113 supracondyloid fractures 35 (74 to per cent) by a consideration of the 113 supracondyloid fractures 35 (74 to per cent) by a consideration of the 113 supracondyloid fractures and 114 to per cent) by a consideration of the 114 to 114

The primary complications of fractures of the elbow are bursting of the skin usually in the antecubital area vascular lesions perve lesions and dislocations

Bursting of the skin occurred in 2 of the cases re

herve lesions are most frequent in supracondy loid fractures and are caused either directly by the trauma or indirectly by a bone fragment Complete nerve severance is rare. In the only instance of such an injury in the cases reviewed the radial nerve was involved Incomplete nerve lesions due to slight laceration or contusion are much more common than complete lesions. In the cases reviewed a primary herve lesion was found in 20 (6 00 per cent) In 14 the radial nerve was involved alone and in 4 the median nerve alone In both the radial and me dian nerves were injured. Ten of the radial nerve lesions and the 2 lesions involving both the radial and the median nerve resulted from supracondy loid fractures caused by extension resulting in antero external displacement of the diaphyseal fragment of the humerus The 4 other lesions of the radial nerve followed fractures of the external condule and the 4 lessons of the median nerve followed supracondy loid fractures caused by extension with antero internal displacement of the humeral diaphy sis

Forty (12 10 per cent) of the fractures reviewed were complicated by dislocations

The secondary complications of fractures of the elbow are ulceration of the skin or soft parts severe vascular lesions nerve lesions and ossification

In 2 of the cases reviewed delayed ulnar palsy developed One case was that of a man twenty four years old in whom the symptoms of palsy were first noted nineteen years after a fracture of the capitel lum humer.

Ossification occurred in 67 (0.42 per cent) of the cases reviewed. In 27 it followed a supracondyloid fracture and in 26 of these the fracture was complicated by dislocation.

In general the treatment was based on the type and age of the fracture. In cases of recent fracture with no displacement of the fragments a plaster of larse spint was a spiled with the forearm acutely fleved and supmated for from five to eight days and the end of that time physiotherapy was given Recent fractures with displacement of fragments were reduced under ether narcoss by manupulation with longitudinal traction flexion counter extension and lateral traction under \x ay control.

Fractures of the external and internal condyles ond of the epocondyles with great displacement of the fragments in which manipulation failed to effect reduction were subjected to open operation with simple replacement and the use of a fibroperiosteal or wire suture. All fractures of the obertanon with separation of fragments were operated upon.

After operation or manual reduction a posterior moulded plaster splint was applied with the forearm in flexion except in cases of fracture of the olectanon. The period of immobilization ranged from eight to fifteen days.

The majority of old fractures were treated by phasotherapy. Open operation was reserved for cases in which a deforming callus interfered with the function of the elbow. When hony anklyosis was present arthroplastiv was done with the use of free transplants of fascia. Primary increased some work of the case of the cas

Two hundred and suriv patients were traced for at least ax months after the treatment. Very good results were obtained in 150 cases (61:15 per cent)—in 155 following closed reduction and in 24 following operation. Good results were obtained in 60 cases (16:53 per cent)—24 with closed reduction and 25 with operation. V fair result was obtained in 18 cases (60:29 per cent)—3 with the trainment 8 treated by closed reduction and of treated by operation. The result was poor in 4 cases (15:35 per cent)—3 with exercising the properties of the result was poor in 4 cases (15:35 per cent) 3 of which were operated upon and 1 of which was not treated to the contract of the result was portion and 10 which was not treated the properties of the result was portion and 10 which was not treated the properties of the result was portion and 10 which was not treated the properties of the result was portion and 10 which was not treated the properties of the result was portion and 10 which was not treated the properties of the result was portion and 10 which was not treated the result was portion and 10 which was not treated the result was portion.

Soldi A Fractures of the Wrist (Fratture del polso) Chir d rgani di mor mento 1928 xii 466

Solds reviews 186 fractures of the wrist which were treated at the Rizzoli Institute Bologna These constituted 6 8 per cent of all fractures. Sixty two and nine tenths per cent of the patients were males The fractures vere most common between the elev enth and filteenth and the forty sixth and fiftieth

vears of age The fractures for which roentgenograms are avail able were of the following types fractures of the lower end of the radius 111 (juxta articular 27 articilar 34) fractures of the lower end of the ulna 6 (isolated 5 associated with fracture of carpal bones r) epiphyseal separations of the radius and ulna, 8 fractures of the lower end of the radius and ulna a fractures of the proximal row of carpal bones 4 (of semilunar bone alone 2 of scaphoid alone 1 of semilunar and other carpal bones 1) combined fractures of the carpus and the lower end of the radius and ulna a (scaphoid distal epiphi sis of the ratius r radius ulna scaphoid and capitate 1)

One hundred and fifty two of the fractures of the wrist resulted from indirect violence usually a full and q were caused by direct violence (2 cases of back

fire injuries)

Verve complications were rare. In the case of a five year old boy who fell about 12 ft and sustained an erophyseal separation of the right radius and plan with fracture of the ulnar styloid the median and ulaar nerves were lacerated

The treatment was as follows

Fractures seen at once or within a few days after the accident Reduction under ether anasthesia immobilization for from ten to eighteen days in a circular plaster cast extending from the elbon to the ends of the metacarpal bones physiotherapy

2 Fractures treated in other hospital or at the

patient's home. Physiotheraps

3 Fractures treated surgically In this group there were II cases probuding 7 old cases with deformity Osteotomy of the radius was done in a and simple removal of excess callus in a In a case of fracture of the semilunar bone with pain persisting for ten months the bone was removed

In the 95 cases (53 6 per cent of the total number) which were followed up the result was very good in 6 (27 36 per cent) good in 37 (38 04 per cent) fair in 28 (29 47 per cent) and poor in 3 (3 15 per cent) The r patient with a fracture of the semilunar bone the was operated upon had a good result Two others refused operation

The author's conclusions may be summarized as follows

- I Most fractures of the wrist are of the juxts art cular (Pouteau Colles) type (In the cases re siened the ir cidence of such fractures was 40 86 per cent)
- The incidence of joint fractures in the cases re viewed was 27 68 per cent The principal cause of fractues of the wrist is
- indirect violence A For recent fractures of the wrist manipulative

reduction is the treatment of choice Operation should be reserved for old fractures with mal position

5 Fractures of the scaphora semulunar are best treated by operative removal of the fractured bone FELLOCC Seven M II

Dessalat J A Case of Avuision of the Spinous Process of a Cervical Vertebra (Un cas d'arrache ment d'une apoptyse épineure d'une vertebre ter vicale) Res dortiop 1928 xv 414.

The case reported was that of a truck diver fifts one years of ale who was thrown from his seat on the truck to the ground striking his occiput with his chin flexed When the patient entered the hospital immediately after the accident he companied of pain in the occiput and was unable to move his head forward more than 20 degrees without pain Extension also was painful but was a little less limited Rotation and lateral inclination of the head were not associated with pain. Pressure causes pain over the spinous processes of the 'o' rth ar' fifth cervical vertebrae and a roentgenogram bowed that the spinous process of the fourth cervical terte bra h d been broken off. The detached fragment had descended about 1 cm and touched the upper border of the fifth spinous process. The roentgeno gram showed also a general opacity of the lym phatic glands of the neck on both sides o e te tuberculous adenitis which the patient had had a the age of twenty one years

The functional disturbances due to the leaon of the spinous process were too few to necess tale AUDRES G MORGAN MD active treatment

Mutel and Deloug Arreducibility Due to the later position of boft Parts in Congenital Dislocation of the Ilip (Lincoercibilité par internet tion d la luvation congénitale de la banche) Redorthog 1328 xxxv 385

Irreducibility of the di located hip may be due to absence of the roof of the acetabulum antetorion of the neck of the femur or the interposition of soft parts. The first two conditions can be shown by roentgen ex mination. In cases with interposition of soft parts a cushion between the bone and joint is noted on attempts at reduction. The treat ment is removal of the interposed tis ue. The article contains a diagram showing the different incisions used for excision of the retracted part of the cap ule the tresue which is generally interposed

In the authors opinion the best inci ion is ort that is made between the pectineus and the adductors As this incision is at a distance from th perineum it does not become contaminated by the faces Moreover in the space incised there are only superficial branches of the obturator nerve and while this space is at a distance from the head of the femur when the hip is extended it is very near to it in the position of forced abduction used for reduction of the hip and its axis corresponds to the axis of the capsule Therefore with the thigh in the position for reduction of the hip the authors make an incision beginning at the inguinal fold running parallel with the axis of the himb midway between the femoral

artery and the tendon of the adductors At the bottom of the space between the pectineus and ad ductors the tendon of the psoas can be seen. This is pushed aside and the retracted part of the capsule runosed and excised AUDERY G MORGAN M D

llass J The Lorenz Forking Procedure and Its Field of Application (Die Lorenzsche Gabelung und ihre Anwendungsgebiete) Ergebn d Chir u Offsber 1028 XXI 427

In order to obtain firm bony union of the two frac ture fragments an oblique frontal osteotomy from behind forward and unward is now done instead of the formerly used transverse or sagittal osteotomy of Hass. The esteotomy must not be too steep, and should always be done at the level of the acetabular region The middle point of the plane in which the osteotomy is done should be on a level with the center of the acetabulum. The abduction should be at an angle of from 10 to 40 degrees. Sometimes tenotomy of the adductors is necessary The plaster cast is applied in the position of medium abduction slight extension and slight inward rotation with the knee in slight flexion. After four weeks lateral hinge joints are built in at the knee in order to allow movement of these joints After six weeks the pa tient is allowed to get up and to walk with crutches Only after three months is the cast removed. A few days after the operation the position of the shaft of the femur should be determined by roentgenograms in order that it may be improved if necessary

This operation is indicated chiefly for congenital hustions of the lateral or posterior type which are marked and loose and cause pain but should be done marked and loose and cause pain but should be done only after all attempts at a medicating the symptoms by conservative measures have failed. In path foorcal lurations of the hip it is often the only procedure by which the condition may be improved. It may be considered also for parally the and traumatic dislocations which have become irreducible and is offered to the form especially the relaxed type. It is recommended also for dislocating cora war and arthritis deformans. In tuberculous courts in the acute stage at should be performed only when good results and

absolute harmlessness are assured After citing a series of favorable operative results reported by others the author reviews those ob tained in , 6 of 105 of his own cases in which a follow up examination was made. In 53 per cent the result was good in 28 per cent satisfactory and in 19 per cent unsatisfactory The best results were ob tained in umlateral congenital dislocations of the hip In cases of bilateral and pathological luxations a good result was obtained in only 40 and 43 per cent respectively and in pseudarthrosis of the fem oral neck in only 27 per cent. The remaining cases were too few to allow any definite conclusions regarding them Failures were due to improper po sition of the fragments especially slipping of the dutal fragment anteriorly over the pubic bone which frequently causes long continued pain the

slipping of the proximal fragment which negatives every operative result too great abduction and limitation of mobility. Such results are caused by errors in the technique of the operation.

ERLACHER (Z)

Dusi E Fractures of the Neck of the Femur (Fratture del collo del femore) Chir d organs di mosimento 1928 201 473

In the period from 1899 to October 1 1936 24 fractures of the neck of the femur were treated at the Ruzzoli Institute Bologna. These constituted 19 16 per cent of all fractures of the lower limb and 64 4 per cent of all fractures of the femur.

One hundred and thirty six (36 29 per cent) of the patients were males Senile obteoporosis advanced age and falls of the aged are given as causes but the

fractures occurred also in young persons

According to Delbet's classification 30 per cent
of the fractures were subcapital 35,5 per cent

transcervical 21 per cent cervicotrochanteric and 13 5 per cent intertrochanteric

Of 96 recent fractures 45 were in the true neck of the femur and 51 were cervicotrochanteric. Fifteen cervical and 5 cervicotrochanteric fractures occurred in persons under forts, years of age

Ninety six cases were treated by non operative

measures and 40 by operation.

In the non operative treatment the patient was kept in bed for a few days with the application of weight and extension to hold the leg in abduction of about 20 or 30 degrees and with transverse traction to bring about internal rotation. Counter extension was applied by means of a foot piece against the sound foot and a cotton roller about the root of the sound tigh which was fastiened to the head of the

bed In addition the foot of the bed was raised. When the reneigenogram showed proper reduction a plaster of Paris cast including the whole pelvis was applied with the leg in slight abduction and internal rotation. When there was great separa tune of the iraspents i traction was applied on a fracture bed following the induction of anaesthesia Three or four days after this immobilization the patient was made to get up and move a bout on crutchost of the being gradually increased. By the properties of the properti

The ambulatory immobilization was continued for from six to eight months with roentgenographic control of the amount of callus formed. After six months if all went well the plaster dressing was bivalved or replaced by a bivalved dressing so that physiotherapy could be given

The operative procedures included the use of a beef bone peg or a metal screw. In cases of rather recent fracture in which coaptation of the fragments control of the secured by simple external pressure on the limb or the roentgenogram showed only slight separation of the fragments or on account of the patients as go rouse other factor a prolonged opera

tion was to be avoided the pegging was done with out arthrotomy on the hip. Local anasythesia was induced in an area around the greater trochanter of the femur about 8 cm wide and the bone peg was introduced by guides into the head of the femur The whole limb and the pelvis were then encased in plaster of Pans while the platent lay on the fracture

iable with the leg abducted and rolated inward. In 8 of the 12 cases in which a metal screw was used an arthrotomy on the hip was done because of the wide displacement of the fragments the age of the fracture and the vicious position of the leg

To perform arthrotomy a lateral antero-external incision was made in the hip through the sartorius and fascia lata. The fracture site was then sought all interposed tissue was removed and the fracture was reduced by traction rotation and abduction. The screw was introduced to the head of the femultioning his second incision over the greater tro

chanter and the whole limb then enclosed in plaster. In 4 cases an autogenous bone peg from the tibia was used. In 3 of these in which the fracture was old arthrotomy on the hip was done.

Ostotomy was reserved for cases of old fracture with great displacement of the fragments or with bending of the femoral neck. According to the resultance and the substitution of the the ostotomy was linear oblique subtrochanteric or intertrochanteric. In a few instances an effort was made to pull the neck fragment down to the level of the head fragment by

skeletal traction applied through the os calcis In a few cases in which the roentgenogram showed considerable absorption of calcium salts with absorption of the neck-a reconstruction operation was performed

The results were considered excellent when there was no pain and little or no shortening the point had a full range of movement and the patient was able to return to his former occupation. They were considered good when there was only slight lameness that the state of the state

TABLE I -RESULTS IN 96 CASES FOLLOWING NOW OPERATIVE TREATMENT

		i Rec it				
Nat r Hract	,	Poo	EM	Gund	FF	De th
Tenso icl R t t Oli	ŝ	3,	0	:	•	
Ce cot o- chat u Rece t Old	٠,	3	,	?	,	٥

TABLE II -- RESULTS IN 40 CASES FOLLOWING OPERATIVE TREATMENT

Nt t	30	Res It				
pe to		Poor	F	God	Extel	De th
B peg Screw A til t bo	,6	•	\$	6	,	
P est ction Obtest my	3		· .		,	·

The author concludes that in the case of ag dyatients and when proper care is not of lavel too los excellent results can be obtained by non-operative treatment. In home pegging without arthroiem, on the hip the operative trauma is minimal but as it is not always possible to determine the position of the fragments exactly by \(\text{ray control}\) the bone prig may be directed innorrectly so that it fals in its pur-

The value of the autoplastic bone peg in sum ulating osteogenesis is doubtful

Kellogg speed MD

Zanoli R Fractures Involving the Knee (Fratture d) ginocchio) Chir d organi di moniminio 1918

T1 33

Zanoli revenas fort; four fractures of the knet
Thurteen (ap 54 per cent) were fractures of the knet
end of the femue and thurty one (p45 per cent)
were fractures of the upper end of the thus Olize
former five were boundly and two were trood
lear Of the Inter saw even boundly and two were trood
lear Of the Inter saw even boundly as five
intercondylar fafteen unvolved one condyle faue
the external condyle to non-towed the spare or
involved the anternor tuberosity and two involved
the metaphysis.

Four of the five bicondylar fractures resulted from indirect violence due to a fall on the fixed knee the force acting by pressure and mirrared flexion of the leg. One was the result of torsion The monocondylar fractures were caused by Jals on the flexed knee falls from a height direct violence as the condyle and torsion.

The fractures may be of the 1 or 1 form with fragment separation or simply narrow 6s are lin fractures of one condvit the crucial ligament usually hold the fragment close in or may aid in its rotation. Gross deformities are shown either by a varies or a valgus position of the knee depending upon which cond'd les infractured.

In the so called parseculable fractures of the trob lea a small fragment of the medial surface of the femoral troblels as broken off. The author regots two cases in detail. When the legs be patched may slip mote the defect than formed a when this occurs there is pain with farmed at when this occurs there is pain with farmed to defect on the leg and joint effosion. The booying ment may remain loose in the joint or tached. In some cases it may cause joint locking by

entering the intercondyloid space or penetrating be neath the patella. Cases seen early may be treated by prolonged immobilization but in late cases ar throtomy on the knee for removal of the fragment

The author reports a fracture of the median epicodyle of the femul rule to a fail of about 3 th when the take has in a marked valgus position and another due to twisting of the leg. When the rong googram made immediately after the anjury shows the edge of the small fragment to be dentate there can be little doubt of the occurrence of fracture as a rule the treatment indicated is simply physiotherapy but in a few cases open operation may be required for suturing of the tendon insertion into the addactor tubercle or for the repair of lacerated lateral ligaments of the kind of the contract of the contr

Fractures of the fuberosities of the this are most common in young adult males and most frequently involve the external tuberosity. They are not truly have point fractures but they enter and involve the lane Indirect violence such as a fall on the foot with compression of the bead of the tibus as the most frequent cause. The position of the leg at the time of the traums which tuberosity will be injured. The author be been that most fractures of the external tuberosity are vertical while those of the internal tuber entyr are objuque. In fractures of the internal topic entyr are objuque. In fractures of the internal tuber entyr are objuque. In fractures of the internal tuber entyr are objuque. In fractures of the internal tuber entyr are objuque. In fractures of the internal tuber entyr are objuque. In fractures of the internal tuber entyr are objuque. In fractures of the internal tuber entyr are objuque. In fractures of the internal tuber entyr are objuque.

tuberosity the tibial spine is frequently involved. In fractures of both tuberosities compression is evidenced by penetration of the proximal fragments into the shaft of the tibia. The displacement of fragments is not great and is often angular. It is in

creased when the head of the fibula is broken In discussing fractures of the tubercle of the tibia the author reports the case of a man sixty years of age In this instance the loose fragment could be felt and there was pain on joint motion especially on extension Bilateral fractures of the tubercle of the tibia occur more frequently in males than in fe males Up to the age of twenty five years the ma jointy are epiphy seal separations. The mechanism is a sudden forceful contraction of the quadriceps or forced flexion of the leg. The principal symptoms are pain localized over the tubercle and abnormal mobility of a bony fragment at the insertion of the patellar tendon into the tibia. There may be also a joint effusion. The degree of interference with extension of the leg depends upon whether the frac ture is complete or partial. The condition must not be confused with Osgood Schlatter disease of this epiphysis. In the case reported by the author sim ple aspiration of the swelling relieved the pain which hal lasted a year

Two cases of fracture of the spine of the tibra are cited. The whole interglenoid spine or only the me dial of his blank plane may be disrupted. In some in stances the fracture is combined with fracture of the tuberosts of the tubra. The mechanism is probably a sudden extreme rotation of the leg on the thigh exceeding normal limits which causes a

tearing out of the spine by the powerful crucial ligaments. This theor, is supported by the fact that most isolated fractures of the tibial spines involve the median spine into which the anterior crucial ligament is inserted. The treatment usually indicated is immobilization followed by physiotherapy but if the symptoms persist surgical exposure of the knee joint may be necessary.

KELLOGG SPEED M D

Faldini G Fractures of the Malicoli (Fratture malleolari) Chir d organi di movimento 1928 xii cor

In the period from 1896 to 1036 100 fractures of the malleoli were treated at the Rizzoli Institute Bologna These constituted 6 95 per cent of all fractures and 16 per cent of all fractures of the leg The greater number of the patients were between twenty and thirty years of age and 66 8 per cent were males.

The cause of the fracture was direct violence in 35 8 per cent of the cases a fall from a height in 23 8 per cent adduction and supination in 23 13 per cent abduction and pronation in 14 8 per cent and torsion in 14 per cent

Of the 113 fractures which were studied with the 123 31 (274 per cent) involved it malleolus—13 (115 per cent) the third malleolus and 18 (15 10 per cent) the studier malleolus and 34 (37 per cent) were thimalleolar fractures—22 (10 4 per cent) were thimalleolar fractures—22 (10 4 per cent) with displacement of fragments 34 were Dupuystens fractures—15 (13 2 per cent) with displacement of fragments and 5 (4 07 per cent) were supramalleolar fragments and 5 (4 07 per cent) were supramalleolar fragments.

Many of these fractures were complicated by le sions of the soft parts and some of them were open fractures. Other frequent complications were fractures of the tursus and leg

The 82 recent fractures were treated by non operative measures. In 6q cases manual reduction was effected under ether anæsthesia with \ ray con trol either before or immediately after the applica tion of a plaster of Paris dressing The plaster dressing extended from the lower third of the thigh and encircled the leg which was flexed at about 30 degrees and all of the foot The position of the foot during immobilization was generally strong supina tion which in most cases controlled the displace ment of the fragments The immobilization was continued for from twenty five to forty days the pa tient then being allowed to walk but not to bear weight Seventeen cases with involvement of only one malleolus and no separation of the fragments were cured by ambulatory treatment. Seven cases required prolonged confinement to bed and skin traction on the leg. In 5 cases a light celluloid splint was applied after removal of the plaster and in a case skeletal traction was applied through the os calcis

The results were excellent in 27 cases good in 25 fair in 4 and poor in 1

The author concludes that for recent fractures of the malleoli reduction and immobilization by non operative methods is the treatment of choice

One hundred and eight fractures of the malleoli were old Of 102 cases reviewed the principal com plaint was pes valgus in 46 (43 t per cent) rigidity and pain in 38 (37 2 per cent) pes varus in q (8 8 per cent) pes equinus in 7 (6 o per cent) and fistula in 2

(r o per cent) The treatment in the cases of old fracture was open operation in 25 cases the application of a

plaster dressing in 14 and physiotherapy in 61. In 8 cases no treatment was given

The results were excellent in 9 cases good in 32

fair in 30 and poor in q

Physiotherapy was employed only in cases with good position of the fragments or only slight altera tion of the joint surface. The application of air beated to from 110 to 120 degrees it was followed by massage and functional re-education. In a small percentage of the cases a metal arch support was

KELLOGG SPEED M D

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Lemann I V Coronary Occlusion in Buerger s
Disease (Thrombo Angiltis Obliterans) Am
I M Sc 10 8 clavy 897

Lemann deplores the paucity of autopsy reports in the literature on Buerger's disease and urges that all autoosy findings in this condition be recorded even when the death did not occur until a number of years after the amoutation of the affected limb. He believes that the underlying causative agent of thrombo angutis obliterans may predispose the vessels of the other parts of the body to other forms of disease particularly arteriosclerosis. In three of five autopsies on cases of thrombo angutis Lemann noted an affection of the coronary arteries Because of the possible relationship of thrombo anguitis obliterans to arteriosclerosis and the predisposition of victims of Buerger's disease to involvement of centrally located vessels he believes that further studies of these centrally located arteries is of the greatest importance EMIL C ROBITSHEK M D

Brooks B Blalock A and Johnson G S Ligation of the Terminal Abdominal Aorta An Experimental Study 1rch Surg 1928 xvii 794

After occlusion of the abdominal aorta the cardiac output is decreased and there is little if any change in the blood pressure in the artery proving to the occlusion. Immediately after the occlusion there is a transfer of the blood volume from the distal to the proumal aspect of the obstruction.

The fact that the blood pressure in the base of the secta is so little altered by the relatively great changes in the condition of the peripheral circula son with in must follow the occlusion of so large a section of the peripheral circula as the abdominal corta is evidence of the importance of the section of the condition of the pressure and the control of the condition of the pressure and the output of the heart and those the venous pressure and the output of the heart.

HOWARD A MCKNIGHT M D

Cotton Cornwall V and Ponder C W Exten sive Pulmonary Embolism Following Fracture Br t M J 1028 11 780

The case reported was that of a woman who entered the honoral with a factors of the left that and fluid. The leg was frecture of the left that and fluid. The leg was frecture from the honoral two weeks later the limb was massaged by a district was who was not a trained nurse. When the leg was eramund by one of the authors six weeks after the acculent unous appeared perfect and there was no shortcung of the leg. The ankle and leg showed consolerate exchange hou there was no shortcung of the leg. The ankle and leg showed consolerate exchange hou there was no variously of the

superficial vens. The ankle and knee which were stiff were forcibly moved through a few degrees the nurse was instructed how to massage and move the leg and the patient was given permission to walk on crutches. She stated that she felt ill but no cause for illness could be discovered and she did not appear to be ill. A sedative alkaline mixture was given and it was reported that the sickness creased the same day.

At midday two days later the patient requested to be helped out of bed but almost immediately afterward she wanted to return and had hardly been helped back when she gave a slight groan rolled onto her right side and then rolled onto her

back and expired

At autopsy the neck appeared unduly movable but the cervical vertebræ were normal. No fracture of the cranial bones could be found. The brain and abdominal viscera were also normal. The dia phragm was contracted. The lungs appeared nor mal but did not fill the thorax. The heart was

contracted and appeared normal
The heart and lungs were removed and dis
sected out When the right ventricle and pulmonary
artery were opened a long clot about the size of the
lumen of the internal idac vein was found. This
had evidently become folded so that two ends were
passing into the right branch and two into the left
flow of blood to the lungs and causing sudden death
flow of blood to the lungs and causing sudden death
was also a fee end pointing to the pulmonary three
When the clot originally reached the heart it must
have been several inches long.

Noteworthy features of this case were

The lack of proper massage and movement hich favored stasts of the blood

2 The absence of evidence of thrombophlebitis before the embolism occurred 3 The length of time the patient lived presumably with the large foreign body moving about

in the heart the only symptom being a vague illness
4 The remarkable size of the clot

JOHN J MALONEY M D

Petitpierre M Embolectomy on Arteries of the Extremities Collective Review and Report of Twelve New Cases (Ueber Lmbolektomie der

I tremitatemartenen Line Zuzammenstellung und ein Betrag von 12 Faellen) Deutsche Zischr f Chir 1918 eccu 184 A brief account of the history of embolectomy is followed by a statistical review of 118 cases of this operation from the literature and a detailed report

of 12 cases from the Swiss record

The site of primary thrombosis is to be sought in either the arterial or the venous system (paradoxical embolism). The basic disease is usually acute or chronic endocarditis arteriosclerous syphilis or mocarditis. Operations as causes come second infectious diseases third. Other causes are parturi tion and abortion.

The embolus may become anchored at the by furcation of an artery or impacted in its lumen At the site of the embolus there is frequently a local spism of the vessel probably, due to traumatic irritation of the nearest of the alweintra and the pen arterial plevus from distention of the vessel wall. The sudden pair may be simularly explained.

Embolus of an artery of an extremity is but one of a series of emboli. A secondary thrombosis develops at a point peripheral or central to the embolus Conditions are not favorable for the formation of a collateral circulation.

The statistics show that embolism is more common in women than in men and in persons be sond middle age than in young persons. The sudden very severe pain is characteristic. Sooner or later or culstory disturbances are manufested by such aigns a paracterism formaction and a lurn reseasion. Serubulatly and mobility decrease. The extremity with fully in others. General cytopics or matriled with the properties of the control of the control

In the diffe ential diagnosis acute transverse myelitis and harmatom elia threatened gangrene on an atterosclerotic or thabette basis gangrene from frostbite and above all thrombo anguits obliterans must be considered. Raynaud s disease and intermittent claudication have a slower course.

In the localization of the embolism which is difficult the behavior of the pulse and the extent of the circulatory disturbances are of importance Palpation and sensitiveness to pressure are of aid only when the artery lies near the surface primary pain of the embolism suggests the location of the embolus only when it is characteristic Embols are found most frequently where the sub scapular artery branches off from the axillary artery at the bifurcation of the brachial arters at the bifurcation of the aorta at the point where the profunda branches off from the common that and in the populea. When the lumen of the aorta is completely occluded the symptoms are bilateral Wh a the embolus is situated deeper the limits of the circulatory disturbances change accordingly The only treatment is embolectoms. If possible

The only treatment a choose may be such as should be done under local or spinal sares thesa. The removal of the embolus may be effected by the direct o the retrograde route. If in the latter method it is impossible to mobilize the embolus by stroking with the finger it may be removed with Merke's embolus extractor a corkscrew like instru

ment with a blunt tip

The outcome of the condition depends chiefly on
the basic disease. It is influenced also considerably

by the extent of the secondars thrombous us the in turn depend upon the tune that apprea better the occurrence of the embolism and the operation. The importance of early operation is therefore apparent. When the patient comes to operation within the first ten hours. The proposes is erecled. It has been shown that the results of emboketony are best in cases of embols of the upper extremuse less favorable in those of embols of the lower extremutes and powers in those of embols of extremutes and powers in these control of the authors a collected statistics closed core results in 47 per cent.

Summing up the author comes to the conclusion that in spite of the severity of the basic disease and the difficulties in the localization of the embolic and the operative technique embolectomy frequently promases success in early cases and is northy of wider recognition.

RLOOD TRANSFUSION

Heusser H Postoperative Changes in the Blood and Their Importance in the Development of Thrombosis (Postoperative Blutversendens es and thre Bedeutung fuer die Entstehung der Inom bose) D mitche Zische f Ch. 1918 Ccs. 131

The author altempts to show that of the three chief causes of postoperative and spoarcown thromboss—showing of the blood stream a charge in the vessel wall and alteration in the blood itself—the last is the more important and determines the two others. Following a review of the lecture of postoperative blood chinges, he reports the results.

of his own investigations. Hensire down strated that in the first 6a self-tooperation there is a hypoproteinsmus with a reliave
increase in globulus and an increase in the words
quotient. He found all of that the formages most and
then slowly first and that the kindley most and
then slowly first and that the kindley most and
then slowly first and that the kindley most and
then slowly first and that the kindley that
the slowly first and that the kindley slowly
the significant of the slowly first and the scheme to the
regulation of first and thereby the tender
toward coughdation. This was demonstrated in
tests with page serum in which preputation sigfound to run parallel with the increased rate of
sedmentation of the rethrocket.

semination of the symmetry Surgeal Cline at The statistics of the University Surgeal Cline at Basel show that so per cent of all thrombose serior in case of unfarimatory diseases and tumors conditions which lead to pronounced alterations in the blood (uncreased sedimentation rate of the eph rocytes etc.)

In marantic thrombous slowing of the circulus of the blood plays the ch of role whereas in prely inflammator thrombous at the site of the inflammation the most important factor is the charge in the walls of the blood vessels and in portoprative thrombous it is the charge in the character.

of the blood

No distinction is made between thrombosis and cogulation. In thrombus formation the author sees only a priticular kind of intravascular cogulation in which there is usually a transformation of the flood plasma into the state of gel followed by the adhesion of blood platelets to the vessel wail and later a visible precipitation of fibrin. The frequency of thrombus formation in infectious processes at a distance from the focus of inflammation is due to the general readiness of the entire blood platelets to the general readiness of the entire blood in the general readiness of the entire blood in the general readiness of the state of the general readiness in the blood late place also as a consequence of advanting age which would explain the increase in the chances of thrombosis with increased years in which the blood also groups old (Capazzi in which the blood of the place of the plant in the capazzi in

Burde (Z)

Held I W and Goldbloom A A Fundamental Principles Governing the Clinical Interpreta tion of Hæmatological Diseases Med Clin V 4m 1018 mt 713

The authors have covered the entire field of hamatological diseases mainly from the clinical standpoint though the basic conceptions are con sidered more or less exhaustively | They state that the term blood disease is not altogether satis factory as it does not designate the organ or organs at fault Morphological changes in the blood may be purely functional and unassociated with any changes in the hæmatopoietic system differing thus from the changes occurring in organic conditions in which the blood forming organs return to their embryonic functions The elements of the blood may vary normally though the white cells are more susceptible to changes than the red cells appears to be a normal variation of the white cells during the day after meals during pregnancy and during labor There are numerous factors which may account for these variations but it is certain that overproduction in the bone marrow is not a cause

As applied to conditions affecting the erythro poetic system the term regeneration is a mis nomer. The process is not one of repair but rather a disease mechanism producing unripe short lived.

The authors classify the anarmas into ning groups as follows (1) harmorhagic (2) carcinomatous (3) néctious and parasitic (4) alimentary (5) crythro poetic diseases which include peraisetos anarmas harmoft in contraction of the anarmas harmoft in citation (6) anarmas harmoft in citation society, and the parasitic society and the parasitic society and the parasitic anarmas of pregnancy and the puerperum and (1) ometabolic anarmas.

In anomal due to dimunic hymorrhage the reduction of homoglobin and the reproductive percess in the lone marrow are not so marked as in the acute hamorthages. Bleeding from an evolutient safate gives rise to less anomat than bleeding from a mucos uniform a mucos winder Anomat due to carcinomy may be present in cross of the so cilled cachetic type of drittin mit without active himorrhips such as

excal carcinoma with incompetence of the ileo creal value. In cases of bleeding carcinoma the anxima is particularly marked if the condition affects the gistro intestinal canal. When bone marrow metastasses are present the blood picture of permicious anximas may be found. Some carcinomata so affect the bone marrow as to cause the same picture in the absence of bone metastasses.

Same picture in the absence of none inclusives of the infections which are likely to give rise to marked anarmia in many of which the site of the infection is not apparent until after death the authors discuss particularly harmatogenous infections of the kinders subphrenic abscess endocarditis and cholecustitis due to the streptococcus viridans former postatic abscess pulmonary abscess and infections of the sinuses and teeth. Acute syphilis and malaria may give ince to severe secondary

The authors agree with Minot Murphy and Sabin that pernicious aniemia is best explained on the basis of some constitutional inferiority of the erythropoietic system in which there is an endo genous vitamine di turbance which prevents the red cell from maturing or exposes them to early de struction The chief value of the liver diet seems to lie in its power to mobilize vitamines played by achylia is not clear but it seems impos sible to di regard the constitutional factors sides the usual blood findings the authors have noted the erythrokonten described by Schilling These are rod shaped intracellular bodies demon strable by a special technique with a Nile blue sulphate stain. The increased icterus index in the serum and the marked increase of urobilin in the urine are important findings

I olveythamia is probably due to failure on the part of the spleen to destroy red blood cells a hypothesis which fits in with the absence of uroblin from the urine and the lowered icteris index

The leukamias are discussed particularly from the clinical standpoint. The acute lymphatic type may be difficult to diagnose if it is seen in the aleukæmic or subleukæmic stage though a leuco pania with from 70 to 80 per cent small lymphocytes is diagnostic Chronic infectious mononucleosis must not be confused with acute leukæmia lymphatic leukæmia is easily diagnosed as a rule but an acute infection may change the blood picture temporarily to that of an ordinary leucocytosis Acute myeloblastic leukæmia may be confused with thrombocy topanic purpura particularly in the more acute forms Chronic myeloid leukæmia produces the largest spicen of any of the spienomegalies and although the white count is usually very high there may be times when there is only a moderate increase and only the differential count is conclusive

Splenomegalic anamia is characterized by en largement of the spleen secondary anamia leuco cytosi or leucopeania and a relative diminution in the blood platelets. There is slight tendency toward harmorrhage and slight or no enlargement of the superficial glands. Cases of Bantis syndrome age best divided into two groups. (1) those in which the etology is clear (thrombophiletius of the splean or portal versa primary, Leannees cirrhouss hese or tubertuoloss of the spleen) and (2) those (much rarer) with no evident etological factor which the authors prefer to call primary. Bants syndrome. Gauchers splenomegal is of institute on the control course. Chargement of the spleen may be present for a long time before weakness pain in the left hypochondrum and himorrhages from the mucosa and skin lead the pittent to consult a bibysician.

Hodgkin's die case has a considerably more faorable prognosis than formerly because of its present-day treatment with radoum and the roemgen rays. In cases in which the superficial plands are not enlarged the diagnosis may be difficult When the spanal cord is presed upon by enlarged glands a diagnosis of cord tumor may be made The Pels Eucodie temperature rune my suggest

tuberculosis

Thromborytoprenc purpura may be acute or chronic, severe or mid. In the fuliminate, the chronic, severe or mid. In the fuliminate, the partners are severed as the control of the body surfaces fewer marked reduction in the plateless and anemie striking. The pathogenesis is not clear. It seems that the plateless produced are of inferior equality and are essalv destroyed by the spleen and other cells of the retuculo endothelial system. After movel of the spleen the platelets have a better chance to mature.

Treatment is discussed at length Secondary and mias are treated by rest fluids and blood trans fusion. In some instances of gastric hæmorrhage due to ulcer lavage may empty the stomach of clots and stop the bleeding by allowing the organ to contract In less acute cases some form of iron therapy is of value The dietary treatment of pernicious anamia is given at length Splenectomy is of value in congenital hamolytic icterus Banti s di ease (if done early) and Gaucher's disease. In acute and severe cases of thrombocytopenic pur pura splenectomy should not be delayed too long In mild cases a vitamine rich diet iron and calcium will lead to improvement Polycythæmia is best treated symptomatically. The use of drugs su h as benzol toluylendsamın and phenylhy The acute leukarmias are drazin is dangero s amenable to no treatment but the chronic forms are benefited temporarily by roentgen therapy There is no satisfactory treatment for Hodgkin's MICHAEL L MASON M D threase

Goldstein E Schoenlein Henoch's Purpura Report of a Case with a Review of the Litera ture Med Clin N Am 19 8 xii 809

Cold tein reports a case of Schoenlein Henoch's purpura in a man fifty two years of age which ended latally after a course of slightly over four months. There had been epigastric pain without nausea or comiting for over three months when the left knee and later the left ankle became shollen and painful

and a blush purple eruption appeared on the masurface of both legs. Mere they art sed moto the hospital the abdominal symptom increased vomiting occurred and the bosel movements to came brownish and stringy. The blood showed changes of secondary anemia. The Wasserman leaf was negative and the spectrum was negative for tuberede bacall. Urmally as showed albomin. Ynexamination of the gastro intestinal (next-evoled rectally it and doed during a rectally it and showed a perforation of the crecum and several where in the intestine telewhere

Schoenlein Henoch's purpura appears to be a condition of the blood capillaries in which these ves els are dilated, lengthened and distorted. The whole clinical picture may be explained by the action of a toxic substance of food or battensi origin histamin or a histamin like body on the capillary bed In some respects the condition re sembles an anaphylactic reaction. There may be lesions in the skin such as purpure spots wheals erythema or necrosis. In the gastro intestinal tract there may be lesions requiring surgical intervention such as ulcers and necrosis leading to perforation Intussusception is not very infrequent Swell r and pain in the joints follow hemorrhage into the joint capsule and synovia The kidneys may suffer particularly severely with a transient albuminum an acute nephritis with terminal uramia or a chronic nephritis with secondary cardiova. what changes There is nothing characteristic about the blood picture

blood picture
The condition is most common in females and in
the second decade of life. It differs both clin caand harmatologically from thrombucytopanic per

pura

The prognosis is usually good but the garointestinal or renal complications may prove is t

It must be remembered that surgical internation
may be indicated in case of intussusception or per
foration of the bowel Micrael I. Masor h. D.

LYMPH GLANDS AND LYMPHATIC VESSELS

Knapper C Chylanglorus and Chyle Fistular of the Lower Limbs and External Genical Organs (Ueber da Chyla goon und de Ch') fisteh der unt 1 n O'tdrassen und der an utra Geschlechtsorgane) irch f klim Chi 1928 d

Anapper reports the case of a five very old by we whom the hije had made its way from the Castern chiji into the hipph vesses wastern of height at the popilizations. The case was under observation for everal veirs and was treated successfulfy for operation. The operative wound healed from the addominal cavity outward. Re examination a yet alter howed a good result. The condition was apparently congenital. These cases reported in the iterative are also discussed.

The author draws the following conclusions

In the circulatory region of the lumbar trunk there occurs a deviation from the normal which might be called a chylangioma diffusum There is marked dilatation of the lymph vessels and the system of valves functions poorly or not at all so that the chyle is able to penetrate into the pathological lymph vessel region

2 It is uncertain whether this abnormality is a dilatation or a neoplasm of the lymph vessels Stass of chile in the region of the thoracic duct

does not play a role

Choically there is swelling of the legs and the external genital organs (elephantiasis) shows rupturing yellowish white vesicles which dis charge chyle and a chyle fistula develops which

often threatens life 4 The treatment indicated is interruption of the direct connection between the thoracic duct and the peripheral lymph vessel system by laparotomy

5 A similar anomaly has been seen in the region of the cervical trunk. The condition probably occurs also in the subclavicular trunk and the other afferent lymph vessels of the thoracic duct

Gow A E Some Disorders of the Lymph Glands Brit 31 J 1928 11 972

The author reviews the anatomy and physiology of the general lymphatic system and discusses the significance of lymph node enlargement in different portions of the body

Local enlargements are usually the result of a local infection conveyed by the lymphatics trilling wound may be the portal of entry In some cases local enlargement of glands in the neck may be metastatic from an internal carcinoma or the beginn

ing of Hodgkin's disease treneralized enlargement may indicate an infec tious disease such as rubella or syphilis or a condition such as acute lymphatic leukæmia. The patient with chronic lymphatic leukæmia may consult the physician for a swelling on one side of the neck A blood examination will differentiate this condition from splenomy elogenous leukæmia. In lymphosar come the glandular groups tend to be unequal in size rather hard and definitely fixed to the deeper structures The author reports a case of this type in a noman of twenty years which was apparently

cured by 1 ray irradiation The author describes in detail the usual picture of Hodgkin's di ease and urges surgeons to send

material from cases of this disease to St Bartho

lomen's Hospital London where a special investiga tion of the condition is being carried on

WILLIAM J PICKETT M D Coles II B

End Results in Hodgkin's Disease and Lymphotarcoma 1: Sng 1928 ltttviii

Coley states that in his opinion lymphosarcoma and Hodgkin's disease which are usually regarded as distinct conditions are quite closely alhed

etiologically and bear such a close resemblance to each other that in some instances it is impossible to differentiate them either clinically or histologically While typical Hodgkin's disease can be differen tiated from typical lymphosarcoma there are atypical cases which may be considered either as distinct processes with a distinct etiology or as variations of a single disease Coley therefore agrees with Minot and Isaacs who include them all in a general group to which they have given the name

lymphoblastoma The systemic nature of Hodgkin's disease has been recognized by many since Gowers described the lesions as involving not only the lymph nodes and spleen but also the skin intermuscular tissues bones brain soft palate pharynx tonsils ceso phagus stomach intestines pancreas peritoneum thyroid thymus trachea lungs pleura diaphragm pericardium heart muscle suprarenals kidneys testes and ovaries Recently attention has been called to the fact that the disease involves the nervous system and the skeletal system. In 36 cases of Hodgkin's disease Ginsburg found involve ment of the nervous system in 10 (27 7 per cent) Hodgkin's disease of the bone marrow has long been recognized Ziegler in 1911 stated that from 30 to 40 per cent of all cases of Hodgkin's disease show bone marrow involvement while Symmets believes that the bone marrow is involved in every case. Only recently however has it been recognized that in certain cases of Hodgkin's disease very definite metastatic tumors of the bone may be found Coles has had cases of direct invasion of skeletal bone In 1 of these there was involvement of the frontal and occipital bones All of the Jesions disappeared under treatment with large daily doses of the Coles

With regard to the clinical manifestations of Hodgkin's disease the author states that as a rule an enlarged gland appears on one side of the neck and soon thereafter there is enlargement of other glands on the same side A few weeks or months later similar enlarged glands appear on the other side of the neck and still later in the axilla and groin Not infrequently the spleen or liver or both are enlarged. The glands are freely movable and seldom fused They are firm but less hard than a carcinomatous gland and less soft than a lympho sarcoma In a number of cases especially after generalization has occurred there may be an irregular temperature as high as 102 to 103 degrees I and lasting for weeks There is nothing of diag nostic value in the blood findings but in the later

stages of the disease there is usually a severe and progressive anæmia Coley believes that Hodgkin's disease and lymphosarcoma are infectious processes and that all carcinomata and sarcomata are due to the irritation of an infectious agent

There is no record of a spontaneous cure of Hodgkin's disease The duration of the condition varies in different cases and may be modified by

the type of treatment. The effect of treatment gradually diminishes but life has been definitely prolonged by drugs such as arsenic and by the roentgen rays radium and the toxins of bicillus producious and ervisionelas.

Burnam reported a series of 173 cases freated with radium. In the majority radium alone was used. One hundred and ten of the pitients died from the disease. Of a group of 38 who were classed as clinically cuted 2 died from apoplexy nine years after the first observation. The average duration of

life in this group was six years and three months.

Stone summarizes his report of 200 cases treated.

with radium and the \ ray as follows
r The \ ray and radium are only palliative

agents in the treatment of Hodgkin's disease

2 Palhation can be accomplished in 60 per cent
of the cases and complete restoration of health
with or without complete regression of the tumors
may result in about 32 per cent

3 Restoration of health will often last for a year and rarely two three or four years

4 Palliation if it is to follow will begin after the first or second treatment

5 Life may be prolonged one or two years
Desjarding and Ford of the Mayo Clinic in re
viewing the end results in 135 cases also noted

palliation from \ ray and ridium treatment
The value of surgery in Hodgkins disease and
lymphosarcoma has not as yet been definitely
established Many have found as has Coley that
early removal of isolated growths followed by ir
ridiation or the use of toxins has definitely pro

longed life
When multiple glandular enlargements are present
or generalization of the disease has occurred ir
radiation cannot be effective. In such cases Colev
uses the torins of erysipelas and bacillus prodigiosus
of the patients treated with toxins alone, to per

cent recovered and remained well for from three to

Coley reports several cases in which surprising results were obtained with his toxins

In the last thirteen years he has had 38 cases of Is mphosarcoma and 39 cases of Hodgkin's di ease Of the 30 patients with Hodgkin's disease only ? remained well for more than three years and one of these died in the fourth year Of the patients with lymphosarcoma 6 remained well for from three to ten years Of 19 who remained well for from five to twenty two years 16 were treated with toxins alone and 3 with touns and the \ rays Better results were obtained in a previous series (before 1015) when surgery and toxins were used. Coley believes that the less favorable results obtained in the more recent series may be accounted for by the fact that when they first came under observation most of the patients in the second series were in a much lat i stage of the disease the condition having become widely generalized and having been previously treated by radiation

In conclusion Coley says that lymphosarcoma and Hodgkin's disease should no longer be regarded as absolutely hopeless. The tumors are u unity radiosensitive and are responsive also to treatment with mixed toxins of erysipelas and bacillus prodigiosus It seems logical to use the combined treatment thereby securing the local effect of radiation (radium or \ ray) and the systemic effect of the toxins which have the power to reach hidden and remote glands beyond the reach of radiation. The treatment hould be kept up periodically for a number of years In from 10 to 15 per cent of the cases of Is mphosarcoma relief should be obtained for at lea t five years In typical Hodgkin's disease the prognosis is still very unfavorable and permanent control can be expected in only a very small number MANUEL I LICHTENSTEIN MD of cases

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Binger M W Judd E S Moore A B and Wilder R M Oxygen in the Treatment of Postoperative Bronchopneumonia Arch Surg

Observations made in o5 cases of postoperative premoning in most of which the diagnosis was confirmed by coentgenograms strongly indicate that the oyigen used in their treatment resulted in the saving of hie The oyigen was administered by means of the Barach Roth tent. The results were best when the treatment was given early

In experiments on guinea pigs pneumonia was produced by the intratracheal injection of relatively benges streptococci. Treatment with oxygen im mediately after operation was found to reduce the mortality, oper cent

In a group of surgical cases in which there was reason to fear the development of postoperative pulmonary complications oxygen treatment was started immediately after the operation. The in idente of pulmonary infection in this group was practically only

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Allen A W and Wright I S The Bactericidal Properties of the Solution S T 37 (Liquor Heaviresorcinolis 1 1 000) 1rcl Surg 1928

In May 1037 Leonard and Petter described a new antiseptic liquor between the terminals 1 1 000 Anova as \$ 1 37. This antiseptic is a practically colorles when doubtes limped found with a sweetish taste when tootains 1 mgm of crystalline herviesortion per cent abcent and 20 per cent abcent and 20 per cent water. It is claimed to be activated at which was the statement of which washes when the statement will be acted to the terminal to the major the statement of the statement of

It has the lowest surface tension combined with the greatest bactericial action of any of the many sladamized resorcinol derivatives in various solvent solutions that were investigated. Its name signifies a solution with a surface tension of 37 dvines per tentimeter.

It is not effectively bretericidal for breillus pyognaeus within forty-eight hours but destroys the staphlococcus aureus within nunety minutes and the streptococcus hamolyticus in less than fif teen minutes. It is stable and active in the squal fluid Howard McKylori M.D.

Rice T B Bacteriophage in Suppurative Conditions J Indiana State if iss 1928 xxx 509

The author reports the results of the use of bac terophage filtrates in 150 clinical cases. Among the conditions represented were carbuncles and boils all of which showed definite improvement after the first application. In most cases relief was quite prompt. Early boils regressed later ones became liquid and discharged the core. The bacteriophage was applied locally or injected into the tissues around the boil.

In cases of staphy lococcus cellulits the pain ceased promptly and marked improvement was noted in twenty four hours. In cases of ostcomyelits the results differed. If necrotic bone was present its removal was necessary before the treatment caused much benefit. Bed sores were treated with the bac temphage filtrates with marked success. In certain cases the sores were healed although the patient died of the primary lesion. The bacteriophage has no effect upon the body cells. Closure of the wound must depend upon the presence of healthy granula.

tion tissue I figulates the treatment caused prompt Latinia of the foul discharge and the appearance of healthy granulations. Suppurating womed also responded very favorably. In fact the more pus there was in the wound the better results. This was true also in cases of abscess cavity Of eleven cases of appendiceal abscess the only one that failed to respond to the treatment was that of a patient who was moribund and showed canous of the lips and finger ups. Two patients with such placecomes septicemia eventually died. Cases of acne vulgaris uness with salues one times with success and some times with salues one times with success and some

The bacterophage is effective in all staphylo coccus lesions if there is no bone involvement and the blood stream is not invaded. The stock preparation seems just as effective as the bacteriophage prepared against an autogenous culture. Efforts are being made to have the material manufactured in sufficient quantity for general distribution.

WILLIAM J PICKETT M D

ANJESTHESIA

Hornor A P and Gardenier C V A Means of Intercepting Explosions in Anæsthetics Anes & Inal 1928 vii 371

The authors report attempts to climinate the hazard of explosion in the use of gas anaesthetics. Most of the work was done with ethylene. The object was to dispose of the gas expired by the patient in such a way that vapors leaving the face mask were neither inflammable nor explosive when

mused with air or oxygen. Attempts were made to ah orb the ethylene as it left the mask to chain and and the mask and to didute the gas as it left the mask and to didute the gas left its expiration or carbon droude. None of these methods proved assistantiary. The solution of the problem was found to be interception of the explosion be tween the point of origin and the patient. The requires extreme rapidity of action by the intercept ing medium as ethylene explosions attain a may mum rate of propagation of about one and one half mides per second.

As no mechanical check valve can act with such speed the explosion itself was used as the force for the check valve. The authors constructed a cylin drical tube divided into two chambers by a partition a portion of which was made up of two very thin disphragms separated by a laver of fluid Attached to the lower diaphraum was a valve which could be seated in 1/5 000 of a second 1 coil led from the upper to the lower chambers When an explosion occurred at the upper end of the cylinder a fine mesh screen dissipated some of the explosive force while the remainder ruptured the lower diaphragm thus shutting off the valve to the outlet In the meantime the burning gas was traveling from the upper chamber of the cylinder to the lower by way of the coil but as the valve had already been closed no propagation of explosion could be trans mitted through the outlet

I mask incorporating the same principles is suggested for practical use

Grovel R McAULIER M D

Romberger F T Clinical Studies and Chemical Analyses of Rebreathed Mixtures Anal Sea Sea 1 1918 vii 314

The experiments reported in this stride are begun by endeavoring to keep a patient slave by using only his own rebreathed gases and adding onge as needed. As that attempt was exceed at the attempt was exceed at the attempt as account of the percentage of actually breathed gas must be the percentage of actually breathed gas mutually the three days and for a companion of this percentage and the percentage of as a few thirth chiracid state.

In the first experiment the rebreathing was continued for twenty three minutes without nitrosoxide and the carbon dioude in the bag rote to to per cent. The amesthesis differed from the orthnary nitrous-oxide oxygen anasthesia as there was extreme punkness of the skin with profuse perspiration a rapid pulse and accelerated respiration.

In Case 4 without rebreathing no accumulation of carbon dioxide developed in the long tubing. In Case 3 in which a rebreathing bug with an adjusted expiratory valve was used 5 per cent tarbon dioxide was found in the breathing the

In Case 4 the anasthesia was induced with nitrous oxide and ethylene in equal parts but analyses of the breathing bag showed mitrous oxide to per cent and ethylene 63 per cent this fact uside cating that nitrous oxide is the more absorbable.

In Case 5, 40 per cent carbon dioxide was given to determine whether such a high percentage minable produces dilatation of the pupil and a statosary epehall but only 31 per cent could be re-overed from the bag George R McAulit MD

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Sear II R Osteitis Fibrosa and Osteitis Defor mans Med J Australia 1928 11 516

The author holds that osteitis fibrosis and osteitis deformats tend to merge into one another and cites the opinion of other authorities regarding this point. He believes that these conditions are unusually common in Australia. He has seen over 100 cases of osteitis deformans.

The essential histological features are (x) disappearance of the original bone (2) the substitution of a vascular connective tissue for the original bone and its intertrabecular marrow and (3) the formation of new bone from this connective tissue

Various classifications adopted are given Roentgenographically Sear classifies the sub groups of osteits fibrosa as (1) solitary Cysts with groups of osteits fibrosa as (1) solitary Cysts with or without trabeculation (2) multiple Cysts (3) a somewhat cystic condition sometimes involving one bone sometimes many which on th one hand approaches the Cyst either single or multiple and on the other passes, through varying degrees of osteoderosa until it approaches more closely the Viyr of lexions seen in osteits deformant (4) a condition characterized by a finely stippled pitted or district of appearance found most commonly in the stand of these groups is described in detail and the district of the condition characterized for the second commonly in the stand of these groups is described in detail and the district of the common security of the condition of the condit

The third type especially appears strongly allied to ostenis deformans. The author states that all fough he has never seen the woolly osteosclerosis typical of ostenis deformans in ostenis fibrosa he has observed cases of the former with no or atypical stull changes and others have reported similar changes in cases of ostenis fibrosa.

ADDITH HARTUNG M D

Burrows M T Jorstad L II and Ernst E C
The Chemical and Biological Changes Induced
by the Y Rays in Body Tissues Padiology 1928
x 3.0

The authors state that the \ ays not only destroy tante cells but may induce cancer. Cancer may be induced all o by coal far and other inpod solvents. This phenomenous the authors of the balance of the balance of the balance of the theory of the authors of the balance of the

In the treatment of cancer with the \ rays both the ran er cell and the surrounding tissues are affected. One of the effects of the \ rays on the

tissues seems to be the removal of the normal lipoid content. This action may be the chief factor in the destructive action of the Vrays on the cancer tissue.

PULC COLONY M.D.

Mottram J C The Action of Radiation on the Blood Supply of Tumors Lancet 1928 cerv 960

Mottram described a series of experiments per formed upon various tumor grafts both in vitro and in tito which indicate that quickly growing tumors are more radio sensitive in 11 o than slowly growing tumors whereas in vitro both types of tumor have the same radiosensitivity.

He explains this by the effect of radiation upon the blood supply. In quickly growing tumors the cells are abundantly and closely packed around the blood vessels without any intervening supportive tissue. Accordingly the swelling of the cells follow ing radiation produces greater occlusion of the blood vessels thereby more effectively reduced the produced of the tumor and more rapidly destroying it.

In radiosensitivity the amount of supportive tissue is more important than the rate of growth of the tumor Charles II Heacock M D

RADIUM

Forssell G Therapeutic Methods and Results at Radiumhemmet Brit J Radiol 1928 1 374

Forssell briefly describes the organization of Radiumhemmet at Stockholm and reviews the results obtained at that institution in which cancers and tumors are treated principally with radium The hospital was founded in 1010 and is supported by the government At first only monerable tumors were treated with radium. Later as the result of improvement in the technique radium irradiation was used in borderline cases and today an ever increasing number of operable cases are treated with radium or a combination of radium and surgery Such treatment is given most frequently for cuta neous cancer cancer of the lip uterus thyroid oral cavity and vulva and certain sarcomata Breast cancer is treated by surgery alone whenever possible otherwise by surgery and radiotherany cancers of the digestive tract are treated surgically if they are operable

The permanency of healing under radiological treatment has been sufficiently tested only in cases of cancer of the face lip oral cavity and uterus and sarcoma

Of 207 cutaneous cancers of the face 142 (68 per cent) have remained healed over a period of ten) ears. If only the operable cases are considered the incidence of absolute cure was 78 per cent.

In cases of cancer of the hip a cure was obtained in 68 per cent of the whole number and 86 per cent of those which were operable

In cases of cancer of the mouth a five year cure was obtained with radium in 18 per cent of the total number and 31 per cent of those in which the lesson was primary in the mouth Durgery and radio therapy gave a five year cure in 60 per cent of the cases.

In go cases of cancer of the cervar absolute heal ing was obtained in 22 per cent of the total number. If only operable and borderl e cases are considered the incidence of fix 2 per healing was 46 2 per cent. In the inoperable cases a fixe year cure resulted in 16 y per cent. In the cases of cancer of the body of the uterus absolute bealing resulted in 43 per cent of the total number and in 60 per cent of these which were operable.

Of 543 patients treated for sarcoms one third were free from symptoms three years later Of 38 patients with primary tumors who were treated with radium only 34 per cent remained free from symptoms Of 151 patients with sarcoms who were treated with surgery and radium two third have

remained free from 3 mptoms. It has been found that in cases of tumor in which there is a fair chance of obtaining healing by radium irradiation the duration of the healing so obtained is in every way comparable with that obtained by suggery. The innedence of recurrence is lower following primary healing obtained by radium irradiations and the surface. The period of latency is much the same after both types of treatment. Recurrences usually appear during the first and second years. After the fifth year they are rare but they have been known to occur as late as the muth year.

Primary healing was obtained in 1714 (38 per cent) of 4470 cases. In the 1670 cases remaining after exclusion of those representing the most favorable and the most unfavorable forms of cancer, the incidence of primary local healing was o

per cent Of 3 354 cases in which the treatment consisted of radium irradiation alone primary leaf healing was obtained in 1714 (57 per cent) lather most favorable cases the incidence of primary beating rarged from 60 to 90 per cent.

A. James Lareny M.D.

Lacassagne A The Direct and Indirect Action of Radiation on Cancer Tissues Redicioty 19 8 \$2 393

The effects of radiation on the tissues have been attributed to (1) a direct action (2) an indirect action and (3) an indirect general action

By direct action is meant a disturbance of equilibrium within the molecular arrangement of the cell which results in the death of the cell

By indirect action is meant changes brought about in the radiated zone such as circulatory disturbances and sclerosis which affect the nourshment of the cells

By 'indirect general action is meant the liberation into the circulation of a toxin or hormone which serves to stimulate certain general organic reactions

The author discusses these three theories and the various experiments which seem to support the second and third. He believes that as regards their reaction to destructive doses of radiation carecells should be placed in the same class as normal tissue.

A comparison of the statistics published from the principal clinics in which local destructive does are given exclusively and those in which the attempt is made to obtain both direct and indirect action does not favor the latter method.

The author empha uses that in the destraction of neoplastic cells by radiation the importance of preferring the normal tissue must be bone is mind. The chief requirement for successful reads seems to be the administration to all of the canter cells of the strongest dose which is compatible with the integrity of healthy tissue.

CHARLES H HEACOCK WD

MISCELLANEOUS

CLINICAL ENTITIES-GENERAL PHYSIO LOGICAL CONDITIONS

Martin W and Shore R R Juvenile Gangrene inn Sure road ixxxvm .25

The authors report 4 cases of juvenile gangrene and review the literature on the condition first case was that of a boy four and a half years of are who was suffering from an acute generalized infection which began with a cough and difficulty in breathing and swallowing At the end of the first week pain began over the left ankle and heel The skin became blue, and in the course of the next two weeks turned black Similar changes took place over the tip of the left ear and on the prepuce but only the ear sloughed. The foot sloughed at the ankle joint at the end of two months. The child recovered from the acute illness. Two and one half)ears later the stump was fashioned for weight bearing When the child was re examined at the end of five years he was found to be well developed except for absence of the left foot and the tip of the eft ear

The second case was that of a boy aged six years who developed gangrene of both legs and one hand

following an attack of diphtheria The third case was that of a boy seven years old who had widespread chronic tuberculosis 'He had been chronically ill for six months with enlargement of the abdomen and a cough when the left foot and the lower part of the left leg became blue swollen and tender Gradually this gangrenous area became deep black and separated from the living tissue Four months after the onset of the condition when the soft parts had sloughed through to the bone an amputation was done through the thigh The parts bled freely Six months later the boy was still alive and the stump was healed although the tuberculosis was more advanced A section through the main vessels in the amoutated leg showed endarteritis confined largely to the intima One of the vessels showed evidence of canalization as though it had been thrombosed

The fourth case was that of a boy of fourteen years who had an indolent perforating ulcer on the ball of the great toe and in the course of three weeks developed gangrene of the tip of the second toe and a perforating ulcer of the sole of the foot. The anterior portion of the foot was amputated healed soundly The boy is well today and free from

In 1904 Barrand reported 103 cases of gangrene of the extremities occurring in persons under thirty years of age following an acute infection kantz in 1914 reported an additional 20 cases

of which were seen in his own practice. In one of

the latter gangrene of both feet developed after measles in the other there was gangrene of both feet and one hand but the cause could not be de

termined The autorsy findings show that according to the etiology the cases of gangrene reported may be divided in a groups (1) those in which the gangrene followed an embolus the primary thrombus being in the heart or aorta (2) those in which there was a orimary thrombus in one of the large vessels supplying the extremity (3) those with evidence of local arteritis in the vessels above the gangrenous area and (4) those in which no change could be found in the vessels up to the line of demarcation and there was presumably a capillary thrombosis which had passed on to massive tissue death

To account for certain cases of gangrene the in fluence of infection on the occurrence of thrombosis in the heart large vessel and capillaries must be studied The influence of toxins on the endothelial lining of vessels sluggishness of the blood stream with the deposition of blood platelets spasm of vessels and blocking of the circulation by emboli or thrombi may play a part in the development of this condition

In nearly all of the reported cases the gangrene occurred during the terminal stages of a generalized infection or after such an infection

Experiments by the authors on rabbits showed that the minute vessel of the extremities can be so sitered by the local injection of adrenalin combined with intravenous injections of streptococci that capillary thrombosis followed by gangrene occurs Spasm with diminished blood supply to the part predisposed to infection

In many of the cases reported symmetrical gangrene occurred but a diagnosis of Raynaud's disease was unwarranted. In children symmetrical gangrene is not an entity

MANUEL E LICHTENSTEIN M D

Barber H W and Orlel G H A Clinical and Blochemical Study of Allergy Lancet 1928 ccay 1000 1004

The authors report that in various manifestations of the allergic state certain phenomena have been demonstrated to occur with remarkable constancy and some of them have been noted by other investi gators in experimental anaphylaxis and in serum sickness which is generally admitted to be of ana phylactic origin

Whether the allergic state is intermittent (as in certain cases or urticaria angioneurotic ordema asthma or hay fever) or more or less chronic with periodical exacerbations and remissions (as in Besnier's prurigo and infantile eczema) there can

be recognized a definite cycle of events corresponding to the preparoxysmal stage the actual paroxysm and the postparovysmal stage. In this cycle the most striking features are (1) a rise in the amino acid content of the blood () a fall in the chloride content particularly of the corpuscles due pre sumably to the taking up of chloride by the tissues (a) chloride retention excretion of chloride in the urine being diminished or absent during the parox ssms and increased after the paroxysms, at which time the chloride content of the blood may also be raised (4) a rise in the urinary excretion of ammo ms the ratio of free acid to ammonia combined acid being altered often very strikingly (s) a deposition of urates in the urine in the preparoxysmal or par oxysmal stage (b) an intense ether reaction during the periods of active symptoms and (7) diuresis with increasing acidity and sometimes marked alkalinity of the urine in the po tparoxysmal stage

In a large percentage of the cases examined so far there was a positive van den Bergh reaction of the

hiphasic type

The findings in a case of anaphylactic shock a case of multiple scalds and cases of definite hepatic di ease vere's milet.

The authors believe it possible that the increase

The authors believe it possible that the increase in the amino acid content of the blood results partly from (1) the increased endog nous katabolism that occurs in anaphylactic and allergic reactions as shown by the increased formation of creatinine (2) the relative temporary hepatic insufficiency caused by the damage to the liver cells as evidenced by the positive van den Bergh test and (3) the interaction of the antigen and the defense fer ments of Abderhalden whereby amino acids are formed In any case the positive van den Bergh reaction the raised amino-acid content of the blood and probably the increased ammonia excretion the precipitation of urites and the ether reaction in the urine are indicative of a disturbance of hepatic function. It is likely that the increased ammonia excretion and the temporary retention of chlorides are protective mechanisms

are protective mechanisms
In many cases of allergy regulation of the diet
according to the authors interpretation of these
findings and the internal administration of ammonia
ard glucose have proved of definite value

EMIL C ROBITSHEE M D

MacGarty W C The Cancer Cell in the Practice

of Vieldeline Radulegy 1928 in 3 of Until recently, greas appearance histological patterns and the servetural status of the basement membrane house constituted the only criteria that the control that the contro

Even the smallest cancers are sometimes associated with lymph node involvement. We must therefore begin to attrek radically all conditions that show any analogy to carrier. With our present Lnowledge the only practical procedure is to de termine as soon as possible whether a cytological condition is dangerous or not

For twenty one years the author has sought entra for the early diagnoss of malignancy and been ung in 101 he described three ct tological conductions associated with choose irritation in the automary accuss the gaster tubule the pro tate atoms and the skin. An appearance sign estim malignancy was natured secondary cy tophasa. It was never and to reduce of the property of the state of the stat

The malignant or cancer rell is would or sphru dil and his a large nucleus and one or more large nucleoit. As compared with the cytopian of the adult or reparative regenerative rell the cytopian of the malignant cell is less descend the nucleopia is denser and more granular. These characteristic can be seen in perfectly fresh section stunder or can be seen in perfectly fresh section stunder of the perfect of the perfect of the section stunder of They have not yet been seen in bases endebted in

parastin or cello dus

The morphology of the mali-mant cell is so chi a
tensite that an expert cytologist thoroughly familiar
with it and with the high power details of every cell
in the human bo iv should be able to diagno
tance
from a single cell in the sinus of an inflammatory

lymph node
The malignant cell; a paras te 1t has as definite
a place in medicine as the tuberile bacilius or the
spirochata pallida. Its presence should be investigated when a chronic local udcention or timefation does not heal or disappear in a few veeks. If
possible the affected area or mass should be exceed

lor diagnos.

The more the author sees of small cancers the more he is inclined to believe that we will some compeled to perform a caucial operation for exception of the configuration of the configu

Wood P C Cancer Biology and Radiation Radiology 9 8 m 388

When Warburg found that under asserbits conditions tumor cell are able to spit glucore to conditions tumor cell are able to spit glucore to condition and the condition of the c

In anymals kept in an atmosphere loss in oxygen the disappearance of tunnor has been observed but is not common treatment to the superior of tunnor photodian and extra the superior of large quantites of pluves seem in the last analysis to have no effect upone from the superior growth Moreover et appears that loss tunnor is due to some therecal substrate which acts as a strimilant to the tissues of the fast

and that in mammalian tumors conditions are quite different

The morphological changes which accompany the distriction of tumor cells by the \ and \ rays are not characteristic of these radiations but an effect exerted alo by other physical agents such as heat and cold chemicals and ultravolet light have a similar effect upon the nucleo of the cells. The laws governing the destruction of cells by radiation are the same as those governing the branchest of the cells the destruction of bacteria the same and the same an

Bar field has shown experimentally, that colloads lead in the tosase acts directive on the cells when the field has most substances, such as sulphur carbon, and colloading old has he no such action. In the treatment of certain tumors the author has found that when control to its radiation the fillicacy of the irradiation is increased by 20 per cent. This is due not to the secondary rays but to

a touc effect on the tumor cells

Vaccines sera and non specific substances have
been fried in the treatment of cancer without uni

form success
In the author's opinion a fertile field for investigation regarding cancer treatment is the study of combinations such as lead and an anti-human serum. The lead might affect one portion of the cell while the serum might affect another and when \(^1\text{ray}\)

tradiation to the limit is added a certain number of tumors might be affected favorably. In conclusion Wood states that the technical

problems of killing the tumors without injuring the patient and determining which tumors will uell to irradiation and which will not must be better solved before radiotherapy becomes a scientific method.

Sturm F The Simultaneous Presence of Recent Foci of Tuberculosis and Disseminated Car

clinoma Metastuses (Ueber gleichzeitiges Bestehen firscher tuberkuloeser Herde und di eminierter Carcinommetasta en) Dut che Tisci f Chir 1923 cct 406

According to Rokitanski there is a definite analogoomin between tuberculosis and cancer and anagonomin between tuberculosis and cancer and according to the findings of Centami and Rezzes in misciligations on aumands cancer cells and tubercle baills. Ease an injunous effect upon each other losses here is this analogonism and the constitutional resistance there are numerous other factors which are respinable for the rivity of the association of tubercleus and cancer in the same or Rivines.

The author reports a case in which a latent tuber tubos became activated in the presence of numerous watasiases from an advanced carcinoma of the breast and caused death in three weeks from tuber

culous pleurisy and peritoritis Before the activation of the tuberculosis the patient had remained in relatively good condition for three vers despite the clinical and roentgen demonstration of cancer metas axes: On histological examination the cancer metas were found to be embedded in considerable connective tissue.

In this case there was not only marked resistance to carcinoma invasion but also excellent power of repair A spontaneous fracture of the neck of the femur had re united despite invasion of the fracture

site by metastasis

The author suggests that the natural resistance of the body to carcinoma might be increased by such therapeutic measures as a change of diet environ ment and climate treatment with insulin for the hyperglycemia which is associated with carcinoma and large doese of arsenic. He states that when the organism is badly damaged by carcinoma it to the control of the state of the state of the table of the state of the state of the state of the table of the state of the state of the state of the metabolic processes are only slightly injured by the cancer.

GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

Taylor J F Bacillus Proteus Infections J Path & Bacterial 1928 xxxx 897

Taylor states that the name bacillus proteus should be restricted to a well defined group of non sporing gram negative pleomorphic proteolytic and harmolytic bacilli which produce a spreading or creeping growth on solid media ferment dextrose and saccharose and occasionally maltose but do not ferment lactose mannate or dulcite may or may not form true indolf from pertone water and in milk form a transient clot which is very rapidly pep tonized.

This article reports morphological cultural bio chemical and serological studies of fifty three strains recovered from human sources all of which strains showed the characteristics enumerated. Only three fermented maltose and only the same three strains produced true indol.

Agglutination tests showed variations between the strains and absorption tests seemed to show definite

differences

No classification into pathogenic and non pathogenic strains could be made by the laborators methods employed and no differences were found between strains recovered from urinary facal or other sources.

Bacillus proteus \ 19 of Weil and Telix was found to differ serologically from the fifty three strains of bacillus proteus studied by the author but otherwise resembled them closely

JMA J MALONEY M D

Francis E Tularæmia J Am V 151 1928 val

The author describes 4 clinical types of tularæ mia based on a study of 679 case reports

1 The ulceroglandular type manifested first by 2 papule of the skin followed by an ulcer and en largement of the regional lymph glands

2 The oculoglandular type with conjunctivitis and enlargement of the glands

3 The glandular type with no primity lesion at the site of infection but with enlargement of the regional glands

4 The typhoid type with no primary lesion or enlargement of glands

The infection may result from the handling or shaning of rabbits the dissection of libroriator animals or the bite of the tick. No case has tenreported of the spread of the die are from man to man by contact. The period of incubation varies from one to ten days and averages three days. The onset its sudden and manifested by headache vomiting chills and fever.

ing critics and rever the tuther, me to the pain begans in the tuther, me to the Thest nodes become en larged and tender with often redness of the skin which may extend in streaks to the site of the lesson Twenty four bours later the site of the lesson as evidenced by an inflamed and panful papule which breaks down discharges a plug of necrotic it sue and forms an ulter. The byph nodes may supand forms an ulter. The byph nodes may sup-

purate In Insurance of Type 2 the eye manulests stritation of the conjunctiva redness exdema of the conpunctiva and sealing of the lids and there on the light of the lids and there of the lids of the lids of the string of the lids of the lids of the lids of the appear in the conjunctiva of both Ind. This is a superar in the conjunctiva of both Ind. This liders appear in the conjunctiva of both Ind. This contractive is the lider of the lider of the lider of the may be mild or severe. It may propers to blind ness and even to death

Tularamia of Type 3 causes enlargement and tenderness of the epitrochlear and lymphatic lymph glands but no primary lesion

In the typhoid type fe er is the outstanding, feature. This condition has often been considered to be typhoil until the physician has been impressed by the negative Widal test with agglutination of the blood to the bacterium tularens.

In all types there is fever characterized by an unital rise a remission of two to three days and a secondary tipe. Leucocytosis is present to the extent of about 16000 to Sale incorption was noted in 32 cases and varieties of the comption was noted in 32 cases and varieties of the comption in the first of the control of

Important aids in the diagnosis of the condition are a history of rabbit han fling or tick bite a pri mary papule followed by ulceration persistent glandular enlargement in regional nodes and fever of from two to three weeks duration. The existence of the disease can be proved by againtmation of the bacterium tularense by the patient's serum or by isolation of the bacilii from the guinea oig after inoculation of the animal with material from the primary lesion. Agglutining may be demonstrated after the first week of the disease and often reman present in the serum for years after the patient his recovered from the illness. Human tularema may show cross agglutination of the brucella abortus and brucella melitensis. This i much slower than agglutination of the bacterium tularense. The reverse also is true Bacterium tularense can be isolated from man only after animal inoculation with material from the lesson prepared and injected subcutaneously Necronsy on the animal will show grav granular caseation of the lymph nodes and white necrotic foci on the spleen Maten I fr m the dead animal rubbed on the shaven abraded skin of another guinea pig will bring about the transfer of the disease Culture of bacterium tuiares : may be acquired by moculation of blood dextress cystine agar with heart blood or spleen and hver substance from the dead animal

The author reviews notes on the leaon in 38 cases of skin eruption and subcutaneous nodes. There are all o case histories on 24 fatal ca es

Baroni B Experimental Actinomyco is (Actionmicos) perimentale) 4rch ital di ch r 19 8 ru

S²⁰
Baroni made a number of experiments with regard to actinomy cosus infection using the sits actinomy, ess sustencides with D Ayata had idelited three years previously from a case of actinom cosu of the forearm. Having frough that the strain ballost some of its virulence the as, ho i created its virulence with at a case of a fond infection in references.

In all eighty nine namada were mocularly eighteen white rats ten gran rats inselved eighteen white rats ten gran rats inselved guinea page twenty nine rabbits and four carb Broth cultures grown prefectably on Politiculars were used. The innovation was made in religious the article program of the properties of the liver by intrapertioneal injection in some of the liver by intrapertioneal injection in some of the properties of the properties

Injection into the jugular vein and intracardiat inoculation caused an acute generalized form of actinomy cosis localized particularly in the lungs all my ocardium and associated with the formation of needotubercles. There were no no lules in the

splean or in the lymphatic glands and few in the institual tract and the female gentalia. The majest method are the process as frequently localized in the brain Decess was frequently made and the same that the process was frequently localized in the process which was obtained by the process which was the proposed of the process which was the proposed of the process was the process which was the process was th

Inoculation into a branch of the mesenteric vein produced nodules only in the liver in the form of

club-shaped structures

Insculation into the perstoneum brought about a dissemanted process with a subcaute or chronic course which terminated with heating in the rabbit and guine pig and showed a tendency to extend in the rat and the eat. Rais and cats rarely showed a tendency toward spontaneous recovery the structure of the actinomycotic granulomata was almost the same in all of the animals

Direct inoculation into the testicle caused the development of abscesses The micro-organisms

were found rarely and only in the form of filaments. Subcutaneous moculation brought about circumscribed abscesses which sometimes opened and healed spontaneously. The actinomyces were generally in the form of filaments. The club-shaped structures differed morphologically from those found in other sizes.

Epidermal inoculation was negative

Following intravenous and intraperitoneal in

oculation nodules were found in the kidneys
Cultures made with the material from fresh
bodules were positive whereas cultures made from
older nodules were sometimes positive and some

times negative
The experiments prove definitely that inoculation

of actinomycosis is possible. The author attributes the negative results obtained by some experimenters to special conditions of the actinomyces at the time of isolation or inoculation.

ON AUDREY G MORGAN M D

EXPERIMENTAL SURGERY

Gruzdev \ Injuries from Colored Pencils (Ucler Tintenbleistiftverletzungen) 1 ra bnaja ga 1928 in 200

After reporting two cases of conjunctival injury and two cases of cutaneous injury from colored pencis the author reviews his findings with regard to such injuries in experiments on animals. He

demonstrated that the amin dye contained in the pencil point causes a connective those necrosis with the formation of a zone of infiltration and granulations stained with the dye suggesting a rapidly growing aseptic infilammatory tumor. He recommends immediate radical removal of the tumor.

Hilse A Experimental Free Fat Transplantation Histological Findings (Hi tologische Trgebin et der experimentellen freen Tettgewebtransplanta tion) Beitr pathol inat n allg Pathol 1928 1733 502

In experiments with free transplantation of fatty tissue in rabbits and dogs to determine the hæmo static properties of such tissue in hamorrhage of parenchymatous abdominal organs the author had the opportunity to make a histological study of the changes occurring in the transplants sections yielded information regarding the fate of freely transplanted fatty tissue the microscopic changes occurring in it the part that perishes and the part that remains and whether and how re generation of fatty tissue cells takes place. The conditions of the investigation were particularly favorable in that the transplantation of fatty tissue was made into a hed of a different sort of tissue and in a region that contained no fatty tissue Moreover the fatty tissue transplanted onto wounds on the surface of the liver kidney or spleen was not subsected to changes in its static relations or to functional demands in the way of traction or pressure and its viability was favored by the rich blood supply of the organ

of the organ

On the basis of his investigations the author concludes that in general the transplant in the form of structurally differentiated fatty tissue is destroyed. However it does not perish in all of its constituents that is become necrotic. On the contrary a restoration of the old normal structure of fatty tissue takes place as this occurs even in regions where no fatty, tissue is present it is impossible for the young fat cells to be formed by substitution from similar tissue in the vicinity. In the experiments reviewed the regeneration resulted only when no functional demands foreign to the nature of the transplant were made upon it

The author believes that clinical failures in the transplantation of fatty tissue are due to technical errors in the operation or absence of indications for the procedure

FLESH TREESILS (Z)

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE —THE POLD LACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS I SEE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

SURGERY OF THE HEAD AND NECK

A study of 520 cases of fractures of the skull I A McCREERY and 1 B BERRY Ann Surg 1028 Isxtva (3031 Cranioplasty for clo ure of defect B NEUBAUER Ann

Surg 1928 Exxxviii 1104

Craniop asty by the split rib method R C Brown Codege Surg Australa ia 1928 1 218 (303) I ro thetic aid in reconstructive surgery about the head resentation of a new method F L LEDERER Arch

Otolaryngal 19 8 van 531 13091 Immediate prosthe es for maxillary injuries R LASNE I re se med Par 1929 xxxvi 1338

Congenital malformations of the face | Estetta and B DE CASTRO Clin y lab 1928 xiv 276 Succe ful and tomo is of Sten on a duct II 5 Brack and I W FLACOR South W & S 1928 xc 755

I foreign body in the orbit Report of a ca.e W D ROWLAND I Oghth Otol and Larvngol 1928 EXVII 193 The removal of magnetizable metal from the eyeball W C By E Colorado Med to28 xxv 395 Terforating eve injuries of young children I' HE RODIN California & West Med 1018 TRIX 118 [309] Gumma of the orbit T LEWIN and C WHITE

York State J M 1928 xxvm 1417 Orbital teratoma removed through a Kroenfein inci ion

W B Weidler Am J Ophth 19 8 1 971
Pla tic surgery about the eyes A G BLITMAN Ann Sure 1928 Exxviii 994 Plastic operation on the eyelid and other soft parts

of the face I IMRE o 8 Budapest Studium Verlig The technique of the Motais operation for ptos: W W WEEKS Am J Ophth 1928 x1 8 9 [339] Ankylo leph ron F H Rutty Am J Ophth 1928

x: 091 Correction of del ct due to third nerve paralysis Wiener Arch Ophth 19 8 Ivn 597 Clonus of the internal rectus J J Hogrov Am J Ophth 1929 XI 082

Concomitant strabismus and heterophoria Surre But J Ophth 10 8 xu 581 [309]
The ontometry problem W B LANCASTER J Am M

Ass 1928 xci 1847 Myopa is e sertially a pathological condition T J Dimitry New Orleins M & S J 1928 ltxxii 432 Theories of accommodation M U Tao co.o Am J

Ophth 1928 11 976 Bifocals for gollers H W CHAMPLIN Am J Ophth

Light tran mi. sion by colored spectace lerses in the vi ible spectrum L. D REDWAY Am J OPITH 1929 X1 973

Auto goggles to hold red glass for muscle test L L McCov Am J Ophth 1918 1 0 1
Two cases of ocular photoleramatism produced by ultra

violet rays P SATANOWSKY Semana med to 5 xxxv The card proptometer E Jackson Am J Opt h

The relations between orbital mology and internal medi

cine If FRIEDENWALD Pennsylvania 3f J 19 5 mm Qcular symutomatology in dengue. Ba ed on an analysis

of t,24t cases W D Gill. Arch Ophth 1928 lyn 618 A case of thinosporidium kinealyi J N Drocas But J Ophth 1928 x4 526 T CLARK J South Carolina VI Ass 1929 2214, 271
Aseptic serous men ng its following an intra-ocular for

eign body F V Law Bri J Ophth., 19 8 11 644 Tuberculin therapy in ocular tuberculous O Bis HALSEN Arch Ophth 1929 lvu, 583 1318

The cau es and treatment of glaucoma and the relation to general medicine I E MORHARDT Pres e med Pa 1028 XXXVI 1287

Som modern preparations used in the treatme t of glaucoma S R Girronp Arch Ophth 1928 lsu 612

Dacry ocysistis and its treatment-past and prevent F M HANGER Virgin a M Morth 1918 h 60 Chrome dacryocystiti treated by Mocher's external operation H Tilley I roc Roy Soc Med Load 1115

XXU 160 A large implantation cyst of the conjuncti a E Rour

Proc Roy Soc Med Lond 1928 xw 22

1 typical form of familial degeneration of comes
(Her cher) C 11 throw Arch Orbits 1928 for \$12. The nature of so called Loeppe nodules 6 S Dessy

Arch Ophth 1028 lvn 501 t case of sar ome of the ms B CHANCE AM. (318 Onbth 1028 X1 850 Primary me anosarcoms of the iris C 4 Young Am

Ophth 1928 at 864 Congen tal cataract R R HAND! Anti eptic 19 8 xx1 660

Malana as a cau e of cataract E W OG LIEWA Indian VI Gaz 1928 hun 697

The role of the lens capsule in the comp ations of the cataract operation A knaps J Am VI las 1928 an

Postoperative cataract infections W S Franklin and F C CORDES J Am M Ass 1918 201 107 Mental disturbances following operati na for estara t A GREENWOOD J Am M As 1929 am 1 13 The los of vitreous in cataract extracts n E C Essert

I Am M Ass 918 ILI 179

38

The problem of the secondary cataract D T Atkin on J Ophth Otol and Laryngol 1928 xxxii 385 Interpretation of the visual field N L Wi N L WILSON J

Med Soc N Jersey 19 8 xxv 783 Application of the bar reader to campimetry stereo

campimetry and other purposes M DAVIDSON Am J Ophth 1928 x1 966

An unusual case of macular degeneration T W Law Bnt J Ophth 1929 x11 646 Bilateral obstruction of the central retinal arteries T

[311] Julea Brit M J 1928 11 791 Diagnostic and prognostic significance of retinal harmor thage I W LAMB Ohio State M J 19 8 xviv 949

Angiopathia retinæ traumatica (Purtscher) with some remarks on pigment migration C H Chou Brit 1 Ophth 1928 x11 570 13111 Thrombosis of the central retinal vein case report I

H ROSEBROUGH Texas State J M 1928 TXIV 533 Retinal disease with massive evudation report of a case Il G Mengel J Med Soc N Jersey 1928 xxv

The treatment of papillredema with increa ed intra cramal tension C Evans Brit M J 1928 ii 1992 Surgical technique for the removal of subretinal cyst 1 ercus R Silva Am J Ophth 19 8 x1 867

Yearbook of ear no e throat and allied onditions lol 5 KARL I SCHAEPER 1928 Berlin Springer Handbook of special surgery of the ear and upper air pa sages Vol 1 Ed 4 F BLUMENFELD and R HOFF MUN 1918 Leipzig Kabitzsch

Projecting or lop ear A J WAGERS Med J & Rec

1928 CERVIII 623 The relation of otolaryngological di ea e to mental dis ease G B M FREE Arch Otolaryngol 1928 viii 707 Otological and other manifestations of a diet deficient in vitamins animal experimentation R A Barlow Arch Otolaryngol 19 8 vin 629

The pathology of otosclerosis O MAYER J Laryngol 4 Otol 1928 xlm 843

Ottic pyrmia without sinus thrombosis T E Beyer

Laryngoscope 1928 XXXXIII 785 Zinc ionization in the treatment of purulent otitis media F B BLACKMAR J Med Ass Georgia 10 8 xvii 540 Roentgenographic examination of the mastoid apophysi 1 Marque and S L Aratz Semana med 1928 1110 VEFE

Short reports of five interesting ca es of acute mastoid the C H Smith Laryngoscope 1928 xxxviii 704

A ca. e of complete facial paralysis and meningiti during acute mastoiditis D N Husis Laryngoscope 1928 RIEVER 90

Conditions affecting the progresss of scute suppurative mastorlitis L W GORTON Tri State Med J 1928 1 61

Nose and Sinuses

A case of goundou W S SHARPE Proc Roy Soc Med Lord 1928 xxu 7

Sasal polypi in an eight year-old child. Ca e presenta tion A Michaelis Laryngo cope, 19 8 xxx 111 776 Complete occlu ion of the posterior choanze C A S Riport Proc Roy Soc Med Lond 1928 xxii 159 The prevention of nasal deformitie following the sub murous operation W W CARTER Arch Otolaryngol 1918 VIII 555

The tear reflex test for a thma of nasal origin H M Measar But. 11 J 1928 n 985

The rhinological problem in a thma B HASELTINE Illinois M J 1928 hv 417 The accessory sinuses J T CREBBIN Tri State Wed 1028 i 63

Sinu conditions associated with cough in tuberculosi H Sr J WILLIAMS N York State J M 1928 XXVIII

Tampon treatment of sinus disease in children R I Ashley and A G RANLINS California & West Med 1028 TXIX 409

The use of hpiodol as an aid to the diagnosis of na al sinus conditions A prehminary report A I West and W F HENDERSON New Orleans M & S J 1928 lxxxi

Frontal pain with absence of the frontal sinus operation cure H Kosch Proc Roy Soc Med Lond 1928 xxii

Chronic suppuration of the maxillary sinu including oral fistulas operative cure J H HARTER Arch Otolaryngol 1928 viii 523 The formation and histological structure of cysts of the maxillary sinus G W McGrecor Arch Otolary ngol

[311] 1028 VIII 505 Emplema of the maxillary antrum D I FVT Proc Pov Soc Med Lond 1928 vvn 147

Roentgenological signs which indicate extension of in fection from the ethmoid and sphenoid sinuses to the base of the skull G E PFAHLER Arch Otolaryngol 1028 VIII 638

Optic neuritis following sphenoidal sinusitis located by the differential exploratory test P WATSON WILLIAMS Brit M J 1928 ii 1030

Mouth

Variations and abnormalities in the position of the teeth in erythrocebus the patas monkey Sir F Colver Proc Roy Soc Med Lond 1928 xxii 237 Some aspects of dental sepsis focal and re idual T

NUTHALL Lancet 1028 ccxv 1285 Dental cysts P LISTA and I DUENO Arch de med

cirug y especial 1028 ix 417 Dead tracts in dentine L W FISH Proc Roy Soc

Med Lond 1928 xx11 227 Tumor of the base of the tongue W H JEWELL Proc. Roy Soc Med Lond 1928 TXII 162

Cancer of the tongue and floor of the mouth G M DORRANCE and J K McSHANE Ann Surg 1928 IXXXVIII

Two cases of cancer of the tongue operated upon under colonic ether anæsthesia I L Chiplonkar Antiseptic 1928 XTV 663

Pharynx

Retropharyngeal abscess secondary to a foreign body in the hypopharynx D L SEWELL Brit M J 1928 H

Retropharyngeal tuberculous lymphademitis S Frit. ENDORF Extrapulmonale Tuberkul 1928 ii 162
Resection of the styloid proce s L P Piper Illinois

M I 1928 hs 432 A membrane on the palate pharynx and larynx W

M Mollison Proc Roy Soc Med Lond 1028 xxu Intramuscular injections of bi muth a pecific treat

ment for Vincent's angina O C Righy Tri State Ved 1928 1 47 Pharyngo-re-ophageal diverticulum case report W. C. PUMPELLY South VI J 1928 XXI 1021

Cystic tumor of the pharynx J 1 Gran Proc Roy Soc Med , Lond tota ven tat Ton illectomy or galvanopuncture C B Way Lancet 1929 CCX1 1367 Electrode accution for the removal of ton ils W T

Power Med J & Rec 1928 cravm 641 Local tonsillectomy by the LaForce method S Congy Laryngo cope 1928 xxxviii 799

A new technique for the ligation of ve sels in tonsillect

oms W A WELLS Arch Otolaryngol 1928 vai 657 Ton thectomy in pulmonary tuberculosis J C Boose J Indiana State M Ass 1928 4th 518 Sections of tonsils one of which formed a large tumor filling the pharyny L I owell. Proc Roy Soc Med

Lond 1928 xxu 163 Lymple arcoma of the tonsils W M Mollisov I roc Poy Soc Med Land 1928 xxii 161

Neck

The value of determination of the basal metaboli m in the diagno is and treatment of diseases of the tily roud gland I MERKE Deutsche Zischr f Chir 1928 acx 16 The ba al metabolism in the diagnost of Basedow's dis

ease M Lanné Tresse med Par 1928 xxxv1 1207 Diseases of the thyroid B BREITLER 1028 Berlin

pringer , Occupational diseases of the thyroid their clinical char acteristics and surgical treatment A D KAPLAS R M STAROSCHELOWSKAJE and I A GOLJENITZET Mitt a d

The relationship of hyperthyroidi in to joint conditions

W. S. Divery. J. Am. W. 1828 (ct. 1770)

Tae effect of iodine upon experimental hyperthyroidi in

in man 1 Carson and W Dock Am J M Sc 1928 New views on indine treatment of hyperthyroidism L DAUTREBUNDE I rese med Par 1928 EXTVI 1302

Radiation treatment of hyperthyroidism B L CLARLE Med J Au tralis 1928 11 670 The recognition and treatment of goiter A S Jackson

J Lancet 1918 xlviii 56
Endemic goiter in rabbits I Inciden e and character
istics A M Chiesney T \ Clawsov and B Webster
Bull Johns Hopkin Hosp, Balt 1918 xlui 261

Endemic goiter in rabbits II Heat production in goitrous and non goitrous animals B Webster T 1

CLANSON and 1 M Car ex Bull Johns Hopkins

Hosp Balt 1928 vin 278 I'ndetric goiter in rall its III The effect of the admin tration of iodine B WEBSTER and A M Chesves Bull John H pkins Hosp Balt 1928 clin 291

The management of parenthymatous gotter with ist

The surgical gotter T H Lenvis Canadian M 44. J 1928 xix 687
The prevention of recurrent gotter J E. Ecse. Surg

Clin N Am 1928 van, 1375
Toxic goiter A B Cooks California & West W 3 1028 XXX 378 The treatment of Ba edows di ease M Fevers

Upesk f Laeger 1918 ac 623 Curing Basedow a disease by means of cold diathern

II SCIVERDIVER Med Also 1023 taly 108 The con titutional entity of exophthalmic goiter and to called toxic adenoma A S WARTHIN Ann Int. Med

10 8 11 533 Changes occurring in the thy rold in erophthalmic goiter after socionization S O BLACK, Internat I Med & Surg 1929 xli 503

The effective range of sodine dosage in exophthalmic potter It O THOMPSON A G BRAILEY and P &

THOMPSON J Am VI Ass 1928 xc1 1719 Islands of touc gotter to ue Recurrence of symptoms of exophti aim c gotter eight months after thyrodectomy

J B McNerthvey and W B McNerthvey Sur

Cha \ 1m 1928 yan 1489 The parath road glands their relationship to the three with spe ial reference to hyperthyroidim E. P. Mc Cultagn Arch Int Med 1918 the St Laryngeal and pharyngeal paralysis in tabe B FREYSTADTL Rev oto-neuro-oftalmol y de circu neurol

1928 III 456 Chronic subglotti laryngitis in a child W. M. Matti

SON Pro Roy Soc Med., Lond 925 xxu r6t Larrengitis in the tuberculous F R Vienzoo J Okin homa State M. Ass 1918 xx: 358

Lary negal tuberculosis a study of 500 patients treated at the Maryland State Sanatorium from 1921 to 10 5 F A LOOPER and L \ SCHNEIDER J Am M Ass tort Removal of a benign tumor of the largue with pola. um bichromate R M Colsert Arch Otolarys of 19 8

Rad um treatment of intrinsi carcinoma of the larger S FINZI and D HARMES But M J 19 8 H 880 Laryngonssure for epithelioma Case sho n six v ars

after op ration Sta Sr C Thomsov Pro Roy Sor Med Lond 1928 x11 157 Intrinsi capter of the larynx operated on by laryngo-

fissure immediate and ultimate results Six St C Thouses Arch Otolaryngol 1928 viii i A two-stage laryn ectomy & B New Sur Gynec. & Ob t 10 8 thu 820

SURGERY OF THE NERVOUS SYSTEM

Brain and Its Coverings Cranial Nerves

Some consideration on head injury D Agusta Proc Roy See Med Lond 1918 xxii 11 [314 The differential diagnosis and treatment of cerebral states con equent upon head injuries C P Symones B it M J, 1928 11 8 9

Traumatic compression of the brain and its operative treatment I Dipreur Hosp Tid 1919 lv : 35 40 75 101 137 Narcolepsy F C Turasti and I C Masser I Im

M Ass 1929 xct 1802

Epilepsy L Schoe's uer Zentralb! f Cbr 19 8 JV 2000

The elation of organic brain disea. to epilep ; E B BLOCK Ann Int Med 038 H 531 Ventriculography R Mores Arch argent denested

1928 H2 F New che cal observations which re afferred my conception of the prefrontal labe ts relation to speech]

ABALOS At h argent de neurol 1928 m t The orular e am nation and the syn frome of men cranial hypertension | BOLLACK and F HAPTMA \ Rev oto neuro-oftalmol y de c rug neurol 1919 11 440

TO 481

Alloplastic dural replacement an experimental study A OBERNIEDERMAYR Arch f klin Chir 1929 cl 667 A case of congenital cerebral aneurism E L GRAFF Guya Ho p Rep Lond 1928 LYVIII 493

Lucephalitis penaxialis diffusa (Schilder's disease) E D MICHAMARA Pro Roy Soc Med Lond 1928 XVII

Encephalitis penaxialis diffusa of Schilder (?) C WORSTER DROUGHT Pro Roy Soc Vied Lond 1929

Encephalitis periaxialis diffusa of Schilder (?) C Horster Drought and L. Mandel, Proc. Ros. Soc.

Med Lond 1928 xxii 175 Encephalitis penavialis diffusa (Schilder s disease) (?)

R.E. LICAS Pro Roy Soc Med Lond 10 8 vm 1 6 Meningo-en ephalitis I M Tircoul Proc Roy So Med Lond 1928 xx11 143 Cysticercosis of the brain W BROLGITTON ALCOCK W. E STEVENSON and C WORSTER DROLCHT But M J

1018 11 080

Brain abscess of otitic origin F A LIEHLE Northwest Med 1928 xxvii 571 Drainage of brain abscess Sir P Sargent Brit M

J 1928 11 971 A unilateral lesson of cerebellum (tuberculoma?) re covery I M ALLEY Proc Roy Soc Med Lond 1928

Im 134 Tuberculoma of the brain I H Schrotte J Med

Cincinnati, 1928 14 485 The treatment of brain tumor with roentgen rays G

MEDAROVIC Med Pregl 1928 111 63 Electro urgery as an ail to the removal of intracranial tumors II Cusmuc and W R Bovie Surg Gyner & Obst 19 8 xlvii 751

Venous abnormalities and angiomats of the brain W E DANDY Arch Surg 1928 Ten 715 Endotheliomata of the dura mater A JAYUB PEN oto-neuro-oftalmol y de cirug neurol 1928 us 431

Studies in neurology I The phylogenetic continuity of the central nervous system S INGVAR Bull Johns Hopkins Hop Balt 1928 this 315 Bell spilsy W Marrin Med J & Rec 1928 ctavis

taralyses of the recurrent laryngeal nerve J B

MC\ESTEVEY and W B MCNERTHNEY Surg Clin N lm 1925 VIII 14 9 Navus and left sided hemiplegia T BRUSHFFELD

Pro Roy So Med Land 1918 tan 138 lavus and hemiplegia Shown for comparison with previous case T BRUSHFIELD Proc Roy Soc Med Lond 1023 xxII 138

Disseminated sclerosis with Argyll Robertson pupil C MORSTER DROUGHT Proc Roy Soc Med Lond 1929

Bilateral acoustic neurofibromata T 1 SHALLOW

Inn Surg 1928 Ixxxviii 1100

Spinal Cord and Its Coverings

The present-day technique of examination of the spinal cavities with lipiodol J FORESTIER Radiology 1928

Radiculti in relation to abdominal lesions J H Woolses Surg Clin N Am 1928 viii 1545 Three cases of spinal cord tumors G W Swift Surg Chn \ Am 1928 vui 1525

The resistance of the medulla to tumor compression A LESBROS Presse méd Par 1928 XXXVI 1338

Syringomyelia and syringobulbia I VI ALLEY Proc Roy Soc Med Lond 1928 xvi 178

Subacute combined degeneration of spinal cord without anamia I M Allen I for Roy Soc Med Lond 1928

Peripheral Nerves

\ case of traumati neuritis an accident of labor MARTINEZ Prog de la clin Madrid 1929 XVI 759 Musculospiral injury complicating fracture of humerus

B NELBAUER Ann Surg 1918 laxtviit 1104 The operative treatment of traumatic plnar neuritis at

the elbow H PLATT Surg Gynec & Obst 10 8 xlvn Syphilitic sciatica Gaggero Rev med d Uruguay

10 3 XXII 183 Chronic progressive hypertrophic interstitual neuritis

W E REES I roc Roy Soc Med Lond 1928 xtll 174

Sympathetic Nerves

in experimental and clim at contribution to the ques tion of the innervation of the vessels R Leriche and R FONTAINE Surg Gynec & Obst 1928 xlvn 631 [315] Vasomotor and reflex sequelæ of unilateral cervical and lumbar ramisectomy in a case of Raynaud's disea e with observations on tonus J F JULTON Ann Surg 1028 Ivexviii 827

Miscellaneous

The comparative anatomy of epicritic and protopathic sensation H H WOOLLARD Med I Australia 1028 ii

An experimental study of certain visceral sensations Lect II E P I culton Lancet 1928 cctv 1277 Physiotherapy of pruntis P Béroule Presse med

I at 1928 vetvi 1290 Meningitis Brit VI J 1928 ii 1094

Infe tion of the memores by ba illus lactis aerogenes A. DEANF and (Shera Lancet 1928 cctv 1237 case of meningocystocele I lare Zentralbl f 3 nack 1928 lu 2040

The field of neurosurgery W PENETELD Canadian M Ass 1 2028 XIX 6-4

SURGLRY OF THE CHEST

Chest Wall and Breast

The pathology and treatment of the bleeding breast G knoreach and k. Urban Arch f kin Chir 1923

Fibro is of the breast and tumor formation in connection with it Il LUECKENS Beitr z path Anat u z alig Path 1928 lxxx 40

Chronic cystic mastitis-its relation to cancer of the breast A R Liteore California & West Med 1923 XX15 250 [317] Cancer of the breast H B Woon Med I & Rec. 1029 CXXVIII 567

a clinical index of malignancy for carcinoma of the b east B I LEE and J G STUBENBORD Surg Gynec & Obst 1929 xlvu 812

Traches Lunds and Pleura

Tracheotomy the technique and after-care of the na tient W H PRIOLEST Surg Gynec & Obst 1028

vlvu 848

A case of primary carcinoma of the trachea S IGLALER Med Cincinnati 1928 iv 483 Bronchography a cording to the passive technique the

method of choice for the roentgenologist. A Ochsyen

Radiology 1018 x 412 13171 Massive atele tasis of the lung following bronchoscopy V CASSADY Arch Otolaryngol 1928 vui 520 Bronchomy costs W D STOVALL and H P GREELEY

J Am M 155 1928 xcl 1346 (317) Pulmonary actinomycosis T W Prestoy Ret M 1028 11 1172 The sele tion of cases of pulmonary tuberculous for surgical intervention E W ARCHIBALD New England

Med 1028 crrit 1025 [318] Surmeal operations in the treatment of pulmonary tu berculosis W H THEARLE California & West Med 1028 XXIX, 309

The surgi al treatment of pulmonary tuberculo is H PAGE I Med Ass Georgia 1028 xvii 536

The treatment of pulmonary tuberculosis with special reference to surgical collapse L J Moorman J Okla homa State M Ass 1028 xx1 354

The value of phrenicectomy in the treatment of pul monary tuberculosis ICHOK Arch de med cirug y especial 1928 ix 446

Surgi al collapse of the chest wall as a method of treat ing pulmonary tuberculosis B N CARTER 1 Med

Cincinnati 1928 ix 431 13181 The experimental production of postoperative abscess of the lung I C Curlyn Ed nburgh M I 1018 xxxv

Acute lo abzed suppuration of the lung pneumothorax Gónez-Gaggero Rev méd d Urugusy 1928 vin 180 Abscess of the lung C D LOCKWOOD Surg Chn A

Am. 1928 viii 1443 Exp rimental production of abs ess of the lung

S LAMBERT and C WEEKS Arch Surg 1929 avm 516 Pulmonary abscess-an experimental study C HEDRICK M. JOANNINES and S. ROSENTHAL. Ann Surg 1928 lexxviii 821

Evolution of a parapneumonic pulmonary abscess spon taneous recovery R Carran Bull et mem Soc med d

hôn de Par 1928 xliv 1419

The te hnique of treatment of deep abscesses of the long M Sarbuan Zentralbi f Chur 1928 lv 1746 Lung abscess-two stage drainage operation N W GREEN Ann Surg 1928 lexx us 1110

Congenital cystic disease of the lung L ELCESER Surg Clin N Am 1028 viii 1361

The roentgen ray in the diagnosis of primary pulmonary neoplasm report of a case B P STIVELNIN J Am M

1928 xc1 1690 Two cases of tan er of the hing Menical Stave or THE MOUNTAIN SANATORIUM Canadian M Ass J 19 8

XIX 698 Lmpyema R B BETTHAN and N CRORN J Am

M Ass 1928 xc1 1967

A case of empyema accompanied by cedema of the arm N Hnt Lancet 1928 ccav 1183

Heart and Pericaedium

Air in the coronary arteries G T REESTINAT and E R LECOUNT J Am M Ass 1928 xx1, 17 6
Acute indigestion in relation to coronary thrombes.
T H. Coffee and IL P Rush J Am M Ass 1918 xx1.

Angina pertons A clinical analysis of 200 cases M H.

KARN and I Barray Ann Int Ved 1918 it 401 [319] The pathogenesis and surgical treatment of angua pe tons D Iovesco Zischr f klin Med 10 % cor

Neurogenic disorders of the heart E P Boss Am

M Sc 1028 cleave 780 Massa e of the heart by rhythmic aspi ation and in se trop of blood into the cardiac cavity as a method of re suscitation D Baritari Semana med, 1928 xxxv 1130

Rupture of the heart from a pyemic abscess in the myo ardum G H STEVENSON and A I MARSENIA Glasgow M J 1018 Ct. 33 A rare pericardial injury W Serrentetten Arch f

klin Chir 1028 cl 551 Suppurative pericarditis from the surgical viewpoint F G ALEXANDER Ann Sure 1928 IXXXVIII 801

Esophagus and Mediastinum

Demonstration of non-opaque foreign bodies in the orsophagus II G REINERE Arch Otolaryngol 19 sm 18

Rupture of the esophagus by indirect violence J R. MURDOCH Lancet 1928 CCX 1292
Percesophageal phlegmon and other sequelse of mechan

ical injuries to the resophagus Z SREBRY Warste 4k czasopismo lekarskie 1928 v 221 245 Strictures of the ersophagus from he por oning !

CAMPLAY Orgon Hetil 1928 Isan 385 Anterior thoracic resonhagoplasty by the Rout Veren Lexer method H WIEDEMANN Arch I klin. Chir 10 \$ cl 563 Dysphagia due to pharyngeal paralysis W. M. Motti

sov J Laryngol & Otol 1928 xlus 769 A case of co-existing benign excephageal and prione stenosis W L Grandward W H Harriette Canadian M Ass J 1928 x17 696

Carcinoma of the esophagus M H STREICHER III nois M J 1028 hv 440 The effe ts of localized increased pressure in the media-

tinum upon the circulation. R Nissen Deutsche Zischt f Chir 1918 cevin 59
An intensive study of the thymus C J Bloom South

M J 1928 ta 905

Miscellaneous

Chest pains C M Guion and F S MEARA Med Chn N Am 1028 x11 623 The value of synchronization in the accurate diamous

of chest diseases F M McPhenran and C N Wert. Radiology 1929 xt 458

Traumatic hamothera F B Sr Jons Ana Surg 1928 lexxviii 1110

Dermo ds of the thoray W R WILLIAMS Med J & Rec 1018 exxviu 618

SURGERY OF THE ABDOMEN

Abdominal Wall and Peritoneum

Spontaneous hæmatoma of the abdominal wall G Halperin Surg Gynec & Obst 1928 xlvu 861 Hamatoma in the sheath of the rectus abdominalis

F B St John Ann Surg 1928 lexxviii 1117 The nerve supply of the transverse suprasymphyseal in cision D W Tovey N York State J M 1928 xxviii

Postoperative abdominal hernia K vov Gusnar Arch f klm Chir 1928 cl 636

The radical operation for umbilical hermia and a con uderation of the flap operation of Brenner L DUFT SCHMID Deutsche Zischr f Chir 1928 ccv 347 Predisposition to inguinal herma V MOSLALENKO

arch f orthop u Unfall Chir 1928 xxv1 503 Inguinal hemia and its relation to compensation W

W RUDDICK Canadian M 188 J 1928 XIV 675 Inguinal herma in infants R G DOUGHTY South M 10 8 XXI 1007

Missed diagnosis of strangulated inguinal hernia 11 EGGERS Zentralbl f Chir 1928 ly 2135 The method of radical operation for inguinal hernia A

GABAY Zentralbl f Chir 1928 lv 1988 An operation for the radical cure of congenital oblique inguinal hernia in children P BANERJEE Indian M Gaz

1928 lan 700 Discussion on radical operations for inguinal and fem oral hernix and their end results Zozon Jarosevic

Bobrov Steblin Laurinsky and others Verhandl d 18 Russ Chir Kong Moscow 1927 p 51 [322] Fascial sutures for inguinal hernia H H M Lyce Ann Surg 1928 lyxxviii 870 (325)

A new method of inguinal hermorrhaphy with living fascial autures obtained from the rectus sheath L M Honorias Surg Gynec & Obst 1928 xlv11 831

Muscle fascia suture with preserved fascia and tendon M S ROSENBLATT and M MEYERS Surg Gynec & Obst 1928 xlvn 836

Further experiences with purely fa cial hermotomy E ANDREWS Ann Surg 1928 LEASVIN 874 [326] McArthur bermorrhaphy H G HOLDER Surg Chn 4m 1928 viii 1321

Strangulated femoral herma H Bailey Brit M J 1928 11 1033

Some unusual forms of strangulated hernia 1 M Pishen Med J Australia 1918 ii 623 Abdominal friction in peritoniti BROADBENT

But M J 1928 11 1036 Tuberrulou peritonitis A A Matthews Surg Clin

Resorption from the peritoneal cavity in peritonitis

G Magus Deutsche Atschr f Chir 1928 cex 307
Short transverse mesocolon R Frocenterro and P SCHLANGER Arch argent de enferm d apar digest 1918 tv 4) A new case of short transverse mesocolon R R

Litter 48 Arch argent de enferm d apar digest 19 8 Suproms due to mesenteric lymphademitis A R

Short Lancet 1928 ccts 909 (326)
Cists of the me entery L Descourtes and A Ricard
1376 13261 J de chir 1929 24311 269 13261 Operation for tumors with intestinal adhesions and the

report of a case of sarcoma of the mesentery J kos was Jap J Ob 1 & Cynec 1928 x1 192

Tumors of the great omentum E M Fuss Zentralbl f Gynaek 1928 ln 1782

Primary epithelioma of the gastrohepatic omentum H M RICHTER and H L SEELALS Ann Surg 1928 lxxxviii 1007

Gastro Intestinal Tract

Extra abdominal affections giving gastro intestinal symptoms with special reference to the Menière syndrome

Á W CRANE Radiology 1928 XI 447 An intermittent gastro intestinal claudication L V SANGUINETTI and R JAKOB Arch argent de enferm d

apar digest 1928 iv 217 Two cases of visceral fistula treated without secondary operation S L CALDBICK Surg Clin N Am 1928 viii

Benign tumors of the gastro intestinal tract and the me enteries N N Sookolow Deut che Zt chr f Chir

1928 ccv 397
Foreign bodies in the stomach and in the intestines M Myerson Arch Otolaryngol 1928 vm 675

Diaphragmatic hernia of the stomach without wounds of the diaphragm M M Gallino and G S ORTiz Arch argent de enferm d apar digest 1928 iv 181

The question of gastroptosis H G Zwerg Deutsche Ztschr f Chir 1928 ccx 422
Dilatation of the stomach and bowel with muscular hypertrophy as the cau e for relaxation of the disphragm

H H KALBFLEISCH Beitr z klin Chir 1928 cxliv 116 Diverticula of the stomach P B GOODWIN Illinois M I 1928 hv 444 The management of the so-called cardio pasm by diffuse

dilatation of the resophagus H STARCK Deutsche med Wichnschr 1928 hv 1196 The pyloric syndrome due to progressive metaplasia

R NOVARO and A GALÍNDEZ Arch argent de enferm d apar digest 1028 is 167 Pylorospasm in infants KIRSCHNER 52 Tag d

Deutsch Gesellsch f Chir 1928 Berhn Congenital hypertrophic pyloric stenosis in infant C H Cochran Surg Clin N Am 1928 viii 1357

Congenital hypertrophic stenosis of the pylorus Guicou and Costa. Arch de med cirug y especial 1928 ix 663 The operative treatment of pylonic stenosis in infants LANGE Zentralbi I Chir 1928 ly 1669

The results of operative treatment of pyloric stenosis in infancy B Jaconics Orvosi hetil 1928 Ixan 877 Roentgen observation of Lenign tumor of the stomach prolapsing through the pylorus L G RIGLER Am I

Roentgenol 1928 xx 529 The acid base composition of gastric secretions J L GAMBLE and M A McIVER J Exper Med 1928 xivin

Achlorhydria J P Schneider and J B Carey I Am M Ass 1928 xc1 1 63

Gastric secretion in phthisis C B BROOKE Lancet 1928 CCXV 1128 Syphilis of the stomach with special reference to cer

tain diagnostic criteria H A SINGER and F G DYAS Arch Int Med 1028 zhi 748 Critical discu sion of the present situation regarding the diagnosis and treatment of gastric ulcer & GUTZEIT Alm Wehnschr 1928 vu 1139

Gastric and duodenal ulcer L. R. BROSTER Brit M. J 1928 H 86

13271

Ga trojejunal ulcer G S Dunkey Ann Surg 1928 leexum, 1108 The interpretation of the radiographic appearances of

gastric ulcer \ 1 BARCLAY Brit \ 1 1 1928 II 1026 Apparent hourgla s stomach cured by medical means

M LINHORY Med J & Rec 1919 CXXVIII 575 Ulcer of the le er curvature and pengastritis a roent genographic study hourglass stomach R Sole Arch argent de enferm d apar digest 1928 tv 5

Acute perforation of an ulcer following barium filling in routine gastro intestinal examination 1 I ECAMAN

Surg Cynec & Obst 1028, zlvn 858 A slowly leaking gastric ulcer S O BLACK South M & S 1028, xc 816 Acute perforation of pentic ulcer the significance of its

unusually high incidence among soldiers in Hawaii J M TROUTT Surg Cynec & Obst 1928 xlvu, 815 Treatment of peptic ul er ba ed on its etiology

LIPSCHUIZ Med J & Rec 1928 exsvm 610 The results of medical treatment of extensive gastne ulcers VILARDELL Arch de mod cirug 3 e pecial 19 8

17 460 Pepti ulcer The rationale of our present treatment W. E. GATEWOOD Northwest Med. 1928 XXVII 580.
The indications for surgical treatment of gastric and duodenal ulcer. C. BAUER. Mitt. a. d. Grenzgeb. d. Med.

u Chr 1028 xh 160 The surgical treatment of peptic picer G 1 Moore

New Lingland J Med 1928 ever 1501 The surp al treatment of chronic gastric and ulcers A WYDLER Schweiz med Wichnschr 1928 Iviu 748 The re ults of surgical treatment of gastric and duodenal

ulcer 1 J WALTON But M J 1028 H 84 Experimental study of postoperative ulcers A WINKEL BAUFR and I HOGENAUER Mitt a d Grenzeeb d Med

u Chir 1928 xli 40 Late intussusception of the bowel into the stomach after gastro enterostom; F W WHITE and I R JANKELSON New England J Med 1928 everx 1189

Ulcer of the stomach and duodenum after gastro entero tomy for uch I sions B Solkov and S Ilifa Nov chir Arch 1927 x ii 369 13281 The diagno is of carce of the stornach W Gornax

But M J 1928 u 1163
The early recognition and treatment of cancer of the stomach E SPRIGGS Brit VI J 1928 u 858

New observations on cancer of the ga tru cardia MARESCHAL Pre se med Lar 1928 xtxv1 1300 The relation hip of operability and hamoglobin per centage in carcinoma of the stomach H L HARTMAN

and T W Brockbank Ann Int Med 1028 11 503 Complete gastrectomy for carcinoms of the stomach E R 11117 Put M J 1928 11 9 9 Primary sarcoms of the torns b J Jest Deutsche

Zt.cbr f Chr 1918 c x 381 Partial gastrectomy for peptic ulcers coincident with lymphosarcoma of the stomach recovery L FREEMAN

13291 Colorado Med 1928 txv 362 Recent advances in the treatment of ga tric disea es A F Hun T Brit M J 1928 ii 9 (329) Problems in gastne surgery 518 B Movemen But

M J 1928 11 1021 Castrostomy J H Woolsey Surg Chn N Am

1928 VIII 1541 The abdominal resertion of the upper half of the stomach (from the standpoint of operative techn que' E Borchers Beitr z klin Chir 19 8 czhin 484

Resection of the pylone end of the stomach \ 11 GREEN Ann Surg 1928 Irvavus 1114

Intolerance to bile fello ing ga the receion C BORCHGREVINE Zentralbl f Chir 1028 ly 2242 Traumatic intestinal cupture D F Hist-Surgeon 1928 Ixus 837

Acute intestinal obstruction G A Hennoy Internal Med & Surg 1918 1h 579

Intestinal obstruction. The correlation of recent erperimental studies and chincal applications W (HOSTER J Am M less tores and experim atal tadies of the cause of death in bo sel obstruction C Herries Ztahr

i exper Med 1928 xlii 62 Lethal factors in acute intest nal obstruction L. R.

Bores | Lancet 1918 zivut 568 The townia of intestinal obstruction T G Ors and R L HADEN J Am M Ass 1928 xc1 1529 [331] Body fluid changes due to upper intestinal obstruct in

M A McIVER and J L GAMBLE J Am VI Ass 19 5 XC1 1580 The relation of bacillus welchi antito in to the tourms

of intestinal obstruction experimental studies 1 I Montov and S J Stantas Arch Surg 1929 top Two cases of benign intestinal obstruction L B

SHERRY Surg Chin \ Am 19 8 vin 1511 Intestinal prolapse inheritance factors and relation to carrinoms O JUENGLING Beitr z klin Chir 1918

cylin 4,6 The relation of food to the intestinal bacteria. M L Bonara Med Times 1024 lvt 315

The intestinal protozona index in man M R Castex and D GREENWAY Arch stgent de enferm d apur digest 1928 tv 43 The entamocha of Buets hhu in Argentine D GREEN

way and D I GREENWAY Arch argent de enferm de apar di est 1029 av o

Non operative treatment of infussusception. G M An unusual case of obstruction of the small interior

G MILLAR Brit M 1 10 8 11 1091 A case of theur following strangulation of the stimarhand small bowel in a mesocol fossa M Lagua Zentral f

Chir 102 lv 1995 Sp nal amerithesia in the treatment of paralytic ileus. W L STEPOLEORD S rg Gynec & Obst 1918 et n 851 Multiple diverti ula of the small interime E.

(331) Simons Minnesota Med 1928 x1, 752 I hlegmons of the small intestine F ARIGERATER Zentraibl i Chur 1928 by 1501 Multiple ul crated areas with obstruction of the small

intestines due to as aris lumbricoides J B (c NECTOVEY and W B Mc NETHINEY burg Lun \ Am 1918 VIII 1435 Observations on the movements of the dodenal

contents with spe ial reference to antiper las 5 and pyloric reguigitation R II A Salmovo Ramo g 10 8 31 453

Arteriomesentenc o clus on of the duodenum WEEKS BRUG D DELPRAT SU g Chin \ Am 19 \$

Dilatation of the duodenum or hronic obstruction of the duodenum congenital in o gin J 4 HEA KE and R R.

Best Am J D's Child 928 xxx 1 1214
Duodenal di erti ula R t. PENDERGALS Am "[332) | Surg 928 V 431 The passage of gall stones from the bile pas ares into the

A case of sp ntaneous hepatoduodenostom) duoden m E Rice Zentralbl f Chir 19 8 lv 1731

Duodenstis G W Naget California & Vest Med 1028 XXIX 364

Chronic duodenitis T JOHNSON South M J 1928

Latly roentgen observations in duodenal ulcer E L
JENKINSON J Am M Ass 1928 xc1 1716
Ruptured duodenal ulcer treated by the Judd pyloro

Am 1028 vin 1451

Non malignant tumors of the duodenum R Goines

Am J Roentgenol 1928 xx 405 [333]
The pathogenesis and treatment of peptic ul er of the rejunum J HALPERY Nov chir Arch 1928 xv 210

Jejunal and gastrojejunal ulcer and their associated roentgenological signs J D CAMP J Am M Ass 1028 301 1436

Perforated peptic uker of the jejunum following perforation of an uker of the duodenum W I ORZELT Zentralbl f Chir 1928 lv z 40 [334

Carcinoma of the jejunum J J CANCELNO Ann Surg 1918 Exxviii 941 [334] A case of double intussusception from tumor of the

terminal ileum W A Morrisov Surg Chn N Am

Report of a case of peptic ulcer of the ileum with Meckel's diverticulum A Recours Zentralbi f Chir

19 8 lv 2038
Two cases of persistent omphalomesenteric duct 5 L
Caldblick Surg Clin V Am 19 8 viii 1341

Merkel's diverticulum in infancy and childhood W. R.
Shawoo Arch Pediat 1918 xlv 693

Vassive hamorrhage from an ulcer in a Merkel's

diverticulum W C Merss Nederl Tijdschr v Geneesk 1938 p 4020

An unusual Merkel s diverticulum as a cause of intestinal hamorrhage I F Tispath Am J Dis Child 1928

Stor 1118
Chrome spasmod: affections of the colon and the diseases which they simulate J A RYLE Lancet 1928 ctty 1116

Neurogenic mucous colitis H L Bockes J Bank and 5 h Withness Am J M Sc 1923 clean 813

A specimen of vesicocolic fistula L E C Norbery

A specimen of vesicocolic fistula L E C Norbery Froe Roy Soc Med Lond 1928 xui 269 Facal fistula peritonius intestinal obstruction and elterostomy B T Beasley J Med Ass Georgia 1928

Cancer of the large intestine G W Crife New England J Med 1918 excit 941 Factors of safety in operations for cartinoma of the Colon W P. Sixpens, I Am M Are 1918 of 1800

colon W L SISTRUK J \text{ \text{Im M Ass 1928 xc1 1800}} \text{Colon surgery in the debbitated H B Devine J College Surg Australasia 1928 1 1 3 Roentgenological study of the inverted carcum H

Faten Am J Roentgenol 1928 vv 531
A shot in the vermilorm append v J Fraser Lancet

1918 cctv 1119
The retroperitoneal appendix \ B SMALL Texas

State J M 1928 xviv 550
Appen liceal pain in pneumonia G Segura Arc

Pseu fo-appendictus Sir H M W Gray J I an et 1918 akus 48 Primary Jumphangesti of the appendix A Borchard Deuts he med Within the 1928 liv 10 4

Traumatic appendi itis I Vacii Ca op lék esk 1918 kwii 831 Ippendicius in children C. J. Bloom New Orleans M. 5. 1928 kwii 832

Chronic appendicitis in child en D DLEBADZE Vestin Chir 192 Xi 77 [335]

What is a chronic appendix? H H Fellows Med Chin N Am 1928 vii 611 [335] Fallacies concerning chronic appendicitis J B CARNETT

and R S Boles J Am M Ass 1928 xc1 16,0
The ethological relationship of chronic appendicitis and
the small cystic ovary K Hale Ann Surg 19 8

the small cystic every K like ann Surg 19 S lvvviii 1063 The appendix and strepto occi. Contribution on the

The appendix and strepts our Contribution on the pathogenesis of appendicutis. k. Viever. Deutsche med Wchnescher 1928 lit. 1 02
Appendiceal abscess overshadowed by epil psy. W. B.

Holden Surg Clin N Am 1928 viii 1411 Cysts of the appendix M J Baskix Colorado Med

1925 XV 396
Inc. ion for appendectomy with particular consideration

of the lateral rectus incision Gertkeuper Deutsche Ztschr f Chir 1928 cct 354 Il us after appendicectomy D Det Valle Arch

argent de enferm d apar digest 1928 19 150

A pe imen of carcinoma of the ascending colon with great dilatation of the excum removed by resection of the

distal half of the colon after preliminary short circuit Sir C Gordon Watson Proc Roy Soc Med Lond 1928 XVII 270 A case of tuberculoma of the transverse colon L V

A case of tuberculoma of the transverse colon L v

Sangulverti Arch argent de enferm d apar digest
1928 iv 63

Diverticulties of the sigmoid C E Prillips Surg

Clin N Am 1928 viii 1495

Carcinoma of the sigmoid colon report of a case with treatment C J Osborne Surg Clin N Am 1928 vin 1331

A case of congenital stenosis of the rectum simulating

dysentery N Charterjee Antiseptic 1928 viv 672
Two specimens of villous tumor of the rectum W B
Gugglee Proc Roy Soc Med Lond 1928 vii 269
Specimen leiomyoma of the rectum W S Perrin

Proc Roy Soc Med Lond 1928 xx11 269
The que tion of rectal carcinoma G Bichovskij

Vesto Chr. 1927 at 11

Disturban es: in evacuation and dilatation in case of rectal carcinoma L Hollarbiga Viagy Roentgen Rocal 1938 p. 236

The radical treatment of rectal carcinoma from the

The radical treatment of rectal carcinoma from the expenences of the Gies en clinic. If Dietrich Arch f klin Chir. 1928 cl. 691

Surgi al treatment of carcinoma of the rectum T E. Jones J Am M 188 1928 v 1 1 11
A simple technique for the formation of a controllable a tificial anus R Demet. Deutsche Zischt f Chir 1928

A surgical method for healing pruntis am as well as ircumscript areas of chroni eczema. E Fischer Arch f

klin Chir 1928 cl 716

The treatment of hamorrhoids and anal fissures O
Hain Deutsche med Wchrischr 1928 ht 1991

Main Deutsche med Wehnschr 1928 hv 1091
My experiences with Boas injection treatment for
hamorrhoids W Invest Deutsche med Wehnschr
1928 hv 1091

Vrap d method of radical cure of hæmorrhoid Presse méd lar 1928 vvvi 1274 Curatu e fibrosis of hæmorrhoid by injection G Deliver and R I Vendel Presse méd Par 1928

XXX1 1329

Liver Gall Bladder Pancreas and Spleen

The liver and thyroid their functional relations. M. R. Castex and M. Schteingart. Arch. a gent de enferm d. apar. digest. 19.8. iv. 175.

I ever function tests G M Pierson and M M Rorn MIN J Am M Ass 1928 xc1 1768 A new and simple method of testing liver function 1 G

The clinical value of tests for liver insufficiency J F ROBESSOV Texas State J M 1928 XVIV 565 Clinical evaluation of hver function tests

BAROK Med Klin 1927 xxiii 19 1

Med J & Rec 1928 CERVII 586 643.

Concerning the action of derivatives of quinophenyline upon the liver J Motzov Presse med Iar 1928 ***YI 1256 Biliruhin a non toric substance O H HORRALL J

Lah & Clin Med 1928 xiv 217 Bile acids in jaundice I KATAYAMA Arch Int Med 1020 xitt 016

The association of jaundice and ascites in di ea es of the liver J F Weir. J Am M Ass 1928 ter 1898
The hamorrhagic diathe is of obstructive joundace and

sts treatment O H WANGENSTEFN Ann Surg 1928 A uggestion for the surgical treatment of ascites due to

portal congestion F Peporti. Schweiz med Wehnschr 1918 lvm 652 A case of hy datid cyst of the liver rupturing into the bile

pa sages J Dayor Pres e med Par 1928 xxxv1 1258
Liver absce s with roentgenological demonstration of rupture into bile ducts W. H. Upg. Am. J. Roentgenol. 1929 EE 27

Adenoma of the liver Case report E FISCHER Deut che Ztschr I Chir 1928 ccx 404

Pericholecystic adhesions A S Louis in Surg Chin Am 1928 viii 1289 The gall bladder and jets duct R R BEST ٦e braska State M J 10 8, am 457

Aplasts of the gall bladder L. Schming Deutsche Lischr f Chu 1928 ecx 400 Cholecystography C K HSIEH and S H LIU Nat

M J China 1928 xiv 382 Experience with cholecystography J G knortacit Mitt a d Grenzgeb d Med u Chir 1928 ali 154 Simultaneous non surgical drainage of the gall bladder

and intravenous cholecystography H L Bockes and GERSHON CHIPN Arch Int Med 10 8 xlu 735 [336] Roentgenological diagnosis of gall bladder disease I PLEDMANN Med J & Rec 1918 CXXVIII 588

The infrequency of primary infection in gall blidder disease H M LEINBLATT New England J M 1028 CXCIX 073 Acute cholecystitis complicating typhoid fever 11 child food 1 Riffer and F Lifear Schweiz med Wehn chr

1928 lviu 821 Amorbic cholecystitis The presence of amorbie in the nus of purulent calculou cholecystitis Patzerants Bull et mem Soc med d hop de Par 1928 xliv 1295 [337] Studies of gall stones of the same period of development removed at two different times & H Balks Lett 2

Van Chir 1928 cxlu 436 I erforation peritonitis from a stone filled gall bladder with gall stones in the pentoneal cavity. Zentralbi I Chir 1928 lv 1003 W PORELLY

Surgical intervent on in biliary I thiasis compleated by icterus A J BENGOLEA and C V SUÁREZ Arch argent. de enferm d apar digest 1928 1 5 Unituple papilloma of the gall bladder report of a case

associated with duodenal ulcer T Helvestive Is and I G Richards Virgina M Month 1928 | 640 Su very of the gall bladder A MULLIEDER Wien kho

Wehnschr 1928 xi 019 A consideration of gall bladder surgery R SMITH Sarg Chu N 1m 1928 viii 1521

Gall bladder surgery without drainage and the method ical dilatation of the papilla J Bikks Zentralid L Chir 1928 lv 1858 Cholecystectomy II Iseney Schweis med Wchoschr

1928 Ivin 673 Simplified technique for cholecystectomy H Kraueri, JR Zentralbi f Chir 1928 lv 2114 The removal of stones from the common a d hegatic hile

ducts in jaundi ed patients W Walters Surg Gyper & Obst 1028 xlvn 8co Histological studies of the dilatation of the ampulla of

C ZAWISCH-OSSENITZ Zentralbl, f Char 1018 lv 1868 Hypercholesterolamia adenocarcinoma of the papilia of

Vater Autopsy report from the laboratory of the Pails delphia General Hospital L. N. Bostov and F. J. Junes. Med J & Rec 1928 exxvu 561 Surgery of the biliary tract H HASERER Arch !

Verdauungskr 1928 xlin 155 Closure of the abdomen without drains e in operation on the bile passages J Petermany Zentralbl I Chir 1928 lv 2050

The acid base composition of pancreatic juice and ble I L GAMBLE and M A McIVER J Exper Med 1978

klym 840 Pancreatic function to to with special reference to the quantitative determination of facal amplace J A. Metrez

and L. W. CHRISTEIN Arch of Sure 1028 xvu, 800 Body fluid changes due to cont nued lo so de es ecul secretion of the pancreas J L Gauste and M. 4

McIver J Exper Vied 1938 Mars 8 9
Hancreatic calculi L B Morrison and I K Boosy New England J Med 1928 txtix 1129

I endocyst of the pancreas G S Dupter Ann burg 1028 laxxyn 1100 Acute pancreatic necrosis and ascariasis K Amples.

Bent z kan Chir 1028 czliu 574 A cliqual and anatomical contribution on necrous of the suprarenal glands in cases of necrosis of the pancreas k Paus Matt. a d Grenzgeb d Med u Chir 19 \$

The spleen and the metaboli m of the hoold The lipoids in the blood following splenectomy T J Course

her Soc argent de biol 1918 iv 363 The spicen and the metaboli m of the lipour action of adrenalin upon the lipoids of the blood before and fter splenectomy J T Counes Res Soc argent de

biol 1918 to 308 The pleen and arternal pre su e Tie effect of inte vention or the sple n and arterial pre sure C lints

R v Soc arg at de biol 1928 1 374

The spleen and arterial pre ure The role of the spleen in bleeding C VIALE Rev Soc argent de biol. 1928 The spicen and arterial pre ure The motility of the

dener sted spicen C VIALE and M SONCIAL REV Soc. arg at de bi 1 1928 iv 300 Miscellaneous

Pto is support for the very thin individual 4 k-DUNCAN New Orleans M & S J 1 1918 faxxi 415 W SCH IN ERER

Blu t injuries to the abdomen W. Monatsschr i Unfallheilk 1928 xxxv 225 The traumatic abdomen FS Lyny Internat J Med & Surg p28 xli 5 q

Abdominal pain in chi dren M S Pictaro Tri State Med J 19 S 1, 58

Pain in the lower aldomen Q U NEWELL J Moscorn State M Ass 19 8 xxv 5 1

Remarks on rectal tenderness in cases of abdominal mure W ODERMATT Schweiz med Wchnschr 1928 hu 684

Abdominal food allergy A H Rowe California & West Med 1028 XXIT 31, Dramage in andominal infection T D KENNEDY J Kansas VI Soc 1928 xxix 397

Anuria due to pelvic absce s B B LANDRY New

England 1 Med to28 excit 1300

The morphology of abdominal adhe ions A I ADWIG irch f khn Chir 1925 ch r The diagnosis of inflammatory tumors of the abdomen

HERMAN Med Pregl 1927 it 266 The transverse inci ion in Janarotomy I L. FAURE Presse med Par 1928 xxxv1 1281

Incision for ileocarcal exploration H ISELIN Schweiz

med Wehnschr 1928 lvm 675 I ersonal experiences in abdominal surgical emergencies I Cons Northwest Med 1928 xxvii 505
The function of the diaphragm W S Lewon Arch

Sutz 1028 XVII 840 The influence of the diaphragm upon respiration with

reference to a ca e of pregnancy and phrenicectomy L Estaguirre Cha y lab 1928 xiv 265

A case of diaphragmatic eventration H FERMIN

Geneesk Tudschr v Nederlandsch Indie 1928 kviii 183 The menternological diagnosis of diaphragmatic hernia

L T LeWald Am | Roentgenol 1928 xx 423 A ca e of diaphragmatic hernia (evisceration) THOMAS BRI M 1 19 8 11 983

GYNECOLOGY

Uterus

The importance of sacro uterine ligaments in gynecology II WESBADER Monatsschr f Geburtsh u (ynaek 1028 lxxx 208

The diagnostic value of colposcopy H HINSELMANN klin Wehnschr 10 8 vii 1188 Ceographic cervix II HINSELMANN Monatsschr f

Geburtsh u Gynael 1928 lyxix 214 Has the uterus an inner secretory function R Zivi

MERMANN Arch I Cynaek 1928 CXX IV 328 The treatment of ero ions H Rorscu Zentralbl f Cynaek 1928 lu 1735 Metrorthagia O Terasaki Beitr z path Anat u z

allg Path 1928 lxxx 819 In ulm in uterine bleeding H BUFLTEMANN Zentralbl

f Cynaek 1928 lu 1841 A con ervative method of the control of uterine hæmor rhage by Yray A S AIRKLAND Canadian M A s J

1028 XIX 670

Fi tula of the uterus J C Masson and H F StMON 4m] Obst & Cynec 1928 vvi 682 Menetruating endometrium in the abdominal car after casarean section (Latzko technique) 1 Risck Zentralbl

Cynack 1928 ln 2341

Hyperpla ia of the endometrium with a report of ca es M CRISCITIELLO JR New Ingland J M 1928 CXCIX

Report of some cases of fibroid and uterine hæmor tha es treated by radium L S Ray Indian M Gaz 1928 lvn: 701 The evaluation and analysis of my theory of the patho

genesis of myomata Z Monsionski Ginekol polska 1928 VII 91 The evaluation and analysis of Mon for kis theory of

the pathogene is of myomata J I vskowski (mekol pol ka 1929 vu 73 Experiences with myoma I KUBINYI Orvo Lar és

1018 EVIII Son ler \r 8 libromyomata G litzgingov lri h J M Sc 1923 10 36 738

Observations upon the treatment of 1 000 ca es of fi bromyoma of the uterus Y Capizzano Semana med 1925 EXX 1118 The treatment of fibromata of the uterus & Leno

CERY SEMMELWEIS Or Oskepres 1928 XVIII Sonder Perforating mole death from a ternal hymorrhage M

L. Perry and & Jacon Bol for de obst y giner de Buenos Aire 1929 vii 360

Leucoplakia of the cervix H HUNSELMANN Deutsche med Wchnschr 1928 hv go

The diagnosis and treatment of uterine cancer SCHMITZ New England J Med 1028 CYCIX 1143 Stomach function in cases of utering cancer T Mesaal

Jap I Obst & Gynec 1928 x1 276 Cystoscopic examination in cancer of the uterus S MIZUHARA Jap J Obst & Gynec 1929 x1 267
Radium in cancer of the cervix General remarks with
report of some cases J Cohen New Orleans M & S J

1928 ltxx1 401

The treatment of uterine carcinoma G C WILKINS New England J Med 1928 excit 1154 review of various method of treatment of carcinoma

of the cervix attendant primary mortality and five year cures M J Gelpi Radiology 1028 xi 403 [340] Our experience with roentgen therapy of cervical carcinoma M Bolassio Strahlentherapie 1928 XXIX

The dosage in R units of irradiation (roentgen) of uterine carcinoma as determined by vaginal measurement G h SCHILTZE Strahlentherapie 1928 xxviii 524

New method for the radium treatment of carcinoma of the uterus I BUEBEN Orvosképzés 1928 xvan Sonder Nr 52 Transvaginal hemisection for uterine carcinoma P

KUBINYI Orvosképzés 1928 vviii Sonder Nr 3 Leiomyosarcoma of the uterus F C Sage and 1 I MILLER Am J Obst & Gynec 1928 xv1 828

Adnexal and Periuterine Conditions

Irradiation of inflammatory condition of the uterine adnexa G GAMBAROW Strahlentherapie 1927 xxvi 698 The treatment of suppurative adnesitis by the method of Vital Aza A CHUECO and L FELDMAN Bol Soc de obst

y ginec de Buenos Aires 1028 vii 416
The clinical diagnosis of adnexal tuberculo 1 J BRAUDE Zentralbi f Gynaek 1923 lu 1848 On salpingograph, The study of fallopian tubes by

ray in the diagno is of female sterility II Yaci Jap Obst & Gynec 1928 xi 261 A self retaining cannula for injection of liquids or gas in

tubal insufflation C S Harper Am J Obst & Gynec 1028 XVI 802 Some reflections upon the injection of the fallopian tubes with reference to an unfortunate case Delassts I resse méd I ar 1928 xxxv1 1286

Salpingitis The case for expectant treatment C J MILLER Am J Obst & Cynec 1929 xv1 793

A case of adenomyolipoms of the fallopian tube. W. Shaw. J. Ofst. & Cynre. Brit. Emp. 1928. xxxv. 725. A primary mucogenic adinocarcinoma of the fallopian tude. G. HASELHOPST. Arch. f. Gonzák. 1928. granulása.

tute & Hasethopst Arch f Gynaek 1928 etativ 439
Conservative operati as on the fallopian tubes and
temporary sterilization J koerver Zentralbi f

Cynaek 1028 lu 1635

The female ser hormone M Kochus Wheetzh Abhandl a d Grenzgeb d Med 1928 V F v 173
The female ser hormone in year t E Genera and t Waren Bochem It chr. 1938 evenu 42

Standardization of the female erual hormone E Laqueux and S | DE Jovent Lancet 1928 cerv 11 of The monthly cycle and its hormonal influence in Manuary Wien kim Wichnicht 1928 at 330

The biologi al significance of the se tru stimulating ovarian hormone W Flesc's Muenchen med Wehnschr

Is there a hormonal determination of sex? The ovarian

Studies on the influence of the observation borroome on the generalia and the breast. A. Esmanor Monatsschr f. Geburth u. Gynack. 1928 lent 223.

The female set borroome particularly menformon. E. Agouet. F. Boschanor and S. E. De Bosch. Arch. I.

Littis hlungsmechn d Organ 1928 etn 350 The hological relati n hip between in ulin an Holliculin L Vox Vrch f Gynaek 1928 cextii 180 221

Set hormones and endocrine disea es L. FREANAEL Muenchen med Wehn chr 1928 levy ,80

Up to date ocarian hormone therapy E Koshivski Fortschr d Therap 1928 is 3 o The heterogenou epithelium of the childs ovary \

AKACI Arch I Cynaek 1928 CXXXIV 390
Fezema and ovarian di turbances I Szenoe Zentrall.)

f Cynaek 1928 in 15 3

If topathology of the overy in amenorrhold Torre
Blaco Arch de med civilg ye pecial 1928 it 434

Intra abdominal bilateral ovarian hemotrhage O Outil Zentralol f Chr. 1938 h. 1611 Rupture of a corpus luteum cyst. F. P. Harmovo and O. Stephenson J. Im. M. 188 1948 xci. 1939

A Case of up theist papilloms of the orary J L
AHUMADI and A KLHINSTEIN Bol Soc de obst v ginec
de Buenos Aires 1928 vii 426

Pre ervation of the overy by means of intra atenne transplantation in radical operations for adnexal di case O S Pavetta Am J Obst & Gymec 1928 x 1 807 The re u'ts of operative treatment of o arran carrino-

The re u'ts of operative treatment of a arian carrinomata F Scheryez Monatsschr f Geourt h u Gynaek 1028 brite 30

External Genitalia

Re ults of irradiation theraps in prunits subse. I BLEBER, Drio kepils 1928 vin. Soot N v 47 fibrolipoma of the tig 1 labum majora. If O New MAN. Zentrallo I Gynaek 1938 bi 2734 What type of condounts a arminate should be

Acu e uker of the vulva (Lapschu tg. \ Denso T

lorik ma f Lage idensk 1928 lxtur 70

Carcinoma of the vulva Strekentheet Struk 76

Carcinoma of the vulva (Lapschu tg. \ Denso T

Gyonek 1928 xeur 772
Studie of the cyclic changes in the celular portion of the vaginal ecret on in the human female E M Moses

Zischr f Geburt h u Gynnek 1928 cm 7 8
ReLivation of tre ante for vaginal wall C C Norm
and R A Knibrocult Jr. 4m J O'st & Gynec 1948
yil 678

Genito-urinity fistula in the female with an appretation of Sims and his work D Bissell Proc Roy See Med Lond 1918 xii 1700 Remarks on the operability and operative technique of

ve novaginal fi tula K Dis Indian M Ga. 1028

Vessowagnad fistula Untology argual promoples of repair and technique of suprapulor time e independent F Farmin's and R C. Triuspravia / Judi 1927 xz. 65; Indications (is suprapulor drainage in the treatment of low vessowamad and urterory-mank) high. Bowers and ISEUN. Bull et m. Soc d'chrungens de Par 19 % xx 633

The repair of ve icova, in al fittle R Fourtr J College Surg Australa is 1018 1, 220
A case of primary cartinoms of the va is A C.

I states Proc Ros Soc Med Lond 1935 am 1 p
Paraphimous of the cliton R J Wittay But. W J
19 R ii 1130
Eon madus in femal s and its urguel treatment D M

Davis J Urol 1918 XX 623 Urethral caruncle A A Coveran \chan ta State M J 1928 XHI 460

Miscellaneous

Revert advances in greecole y J O Focas J Ibel, Sor N Jersey 1928 xrv /64, Biology and pathology of the fermile s hardoot of graveology and to better 3 J Husann and L Strat Margareston and the term 3 J Husann and L Strat Margareston and the strategy in groundoof and dold margarest could be supported by the strategy in the strategy i

Observa on on the various obj tions to thymoph in and further experiences with this remedy. A Texass far

Zentral f Cymaek 1918 lu 2088
The horrrome of the anteror lobe of the pituitary gland
ts preparation chemical properties and hiological effects
B Zoynes and S iscrimera Kin Webrische 1918 17
[134]

The arteror jobe of the hypophy is and the genizing C Empelardy and H Ulessander Huenchen med Uchnschr 19 8 Law 812

Experimental studie on the relationship between the anterior lobe of the hypophysis and the grantlas for structure Removator and R. NILDENKEL Zentraly J. Cyanak 1938 in 1892. The anterior lobe of the hypophysis are the a utala. The anterior lobe of the hypophysis are the a utala.

The anterior lobe of the hypophysis are the silven (experimental study on animal) h. Firmanor then med Wichnschr 1938 isav 785

Metrod of measure guterine contraction and observa

tions on normal menstruction and the influt ce of greens and hypophysin upon it II Scienceber Zische 1

Cebart h a Cyanek 1938 To 53
The antenor lobe of the hypophysis and the overy Experiment of the changing terms at studie on animal with gard to the changing treationships between theo ary and the antenot is soft propolysis. A Withket Zentralbi I Gynae 1938

hs 1754

The influence of the ant nor lobe of the hypophysis on the sexual cycle. H. Stegmund Zentralbi f. Gynsek

93 hr 1 9 An experimental therapeutic study of lendle met with pontaneou in ufficiency of these trus cycle. A tempts at cure with anterior lobe hypophy, eal extracts. Experimens at treatment with cyclo æthanamin (hexamethylpyro-allol ethanamin) Also contribution 7 Side chain ethanamins S LOENE H E VOSS and E PAAS Endokrinologie 1928

Letperimental sensitization per viginim with proteins from male gonads D I MACHT I Urol 10 8 xx 733 The action of cestrin on the isolated uterus sensitized with pituitary extract E M SCARBOROUGH Lancet 1928

0027 1236 The action of adrenalin on the respiratory metaboli m of normal and ovarectomized females. L. ASHER and SH. HYBEABE Arch di Sci biol 1028 xii 8

The effects of removal of the suprarenal on the central organs of mice K Masur Endokrinologie 1028 ii to The dependency of the action of insulin on the female setual glands E Voor Deutsche med Wehnschr 10 8

liv 201 The innervation of the genital organs of the female N

MACHADO Arch brasil de med 1928 xvin 805 The sympathetic system and the sexual cycle studies in the ht tophy stology of the ganglion cervicale uters II The

ganglion cervicale uteri of ca trated animals W BLOTE vocat Zischr f mikros anat Forsch 1928 vin 625 Di turbances in menstruation without genital finding W Bicter Schweiz med Wchn chr 1928 Ivin 833

Medicinal therapy of dysmenorrhora H DREVLR Zentralbl f Gynack 1928 in 1725

Promynon Schering a new men trual cycle hormone Amenorrhora (with and without genital hypoplasia) A STRECK Lim Wchnschr 1928 vii 1172

Placental extract progonon in men trual and castration di turbances I BATISWEILER Zentralbi f Gynaek 1028 10 2227

The treatment of endocrine disturbances of menstrua ton E MARTA Deutsche med Wchnschr 1928 liv

The treatment of leucorrhoca with a pressure douche W EICHENGRUEN Zentralbi f Gynaek 1928 ln 1978 The treatment of leucorrhoea and the action of spuman O korstra Zentrall I f Gynaek 1928 lii 2105

Irradiation of the ovaries and hypophysi in disturbances of menstruation D G DRIPS and F A FORD J Am M Ass 1928 RC1 1358 13421

Experiences in menstrual disturbances in patients with ovarian disease F Heissann Med Klin 1928 xxiv 1111 The question of catamenial intra abdominal harmorrhage G k Ziwatorr Zentralbi i Gynaek 1928 lu 1597

The rheumatism of the menopause M P WEIL Bruxelles méd 1928 viii 1630 1697 Minor gynecology for the general practitioner W

HANNES Berlin Klin 1927 XXXIV I Studies in the position of the female genital organs P

Vaginal hysterectomy coupled with colpoperineorrhaphy in certain forms of genital prolapse ANDERSON

Zealand VI J 1929 xvvii 388 stenle marriages and the problem they present I H Noves Rhode I land M J 1928 to 180

Bernvir Texas State J W 1928 xviv 539

The injection of iodized oil in the uterus and fallopian tubes as a diagnostic procedure W F Pickett Texas Ctate J Vf 1928 XXIV 542

Lipsodol injection in the diagnosis of sterility W. A. Faulty re ults in contrast visualization of the female gen italia and their methodical avoidance G K F Schultzl Zentralbl f Gynaek 1923 ln 20 2

COVENTRY Minnesota Med 1928 vi ,60

The basis of hystero alpingography G K F SCHULTZE Ztschr f Geburt h u Gynaek 1928 vom 634 The clinical value of tubal insufflation and hystero

salpingography with particular reference to technique and indications G HASELHORST Ztschr f Geburtsh u Gynaek 1028 xcm 614 Radiation therapy in gynecology I I KAPLAN Am

I Obst & Gynec 1028 XVI 855 Human sexual sterilization S H BABINGTON Cali forma & West Med 1028 xxix 160

The danger of intra uterine contracentive apparatus

P STRASSMANN Deutsche Ztschr f d ges gerichtl Med 1028 YD 2 8 A comparative study of certain gynecological and

of stetrical conditions as exhibited in the colored and white races C I MILLER Am I Ob t & Gynec 1028 xvi Is turpentine of therapeutic value in gynecology? A vov

PROBSTVER Monats chr f Geburtsh u Gynaek 1028 lxxv11 238 Blood transfusion in gynecology and obstetric

HASELHORST Deut che med Wohn chr 1928 hv 1160 The acute pelvis E WILLIAMS Brit VI I 1028 H

The treatment of pelvic infections G G WARD Pennsylvania M I 1028 xxxii 61 Experimental studie in tuberculosis of the female gentalia Granzow Med Klin 1928 xxiv So;

Sterility an I genital tul erculosis E Voor /tschr f Tuberk 1928 li 114

Gonoco cu infection in female children T J WILLIAMS Am I Obst & Gynec to S xvi 861 Curing chronic gonorrhora of the uterus and adnesa hy

means of subcutaneous injections of living gonococci (living vaccine) A Loeser Med Klin 1928 331 96, How long are gonococci demonstrable in dued vaginal

and cervical secretions? R JOACHIMOVITS Zentralbl f Cynaek 1928 ln 1780

Rare tumors of the female genitalia Z Szymmany Orvo i Hetil 1928 lxxii 699 Cystocele at middle are treated by the internoution operation H M CLUTE New England J Med 1928

CACIX GOT [343] The pre-operati e and postoperative treatment of gential fistulæ the use of sal es in case of operative

failure E I ischer Zentralbl f Gynael. 1929 lii 2299 The indications for operation in cases of lutein cysts associated with hydatidiform mole A FRUHINSHOLZ Cynéc et obst 1928 vviii 193

Chinical study of hydatid mole chorioepithelioma and lutein cysts S Joseph and E Rabas Arch f Gynaek 1928 CTXTIN 461

The poor gynecological ri k T O BURGER Surg Clin Am 1928 viii 1315

Local anaesthe is in gynecological laparotomies A Timoreew Zentralb! f Gynaek 1928 lin 2116

Spinal angesthesia in gynecology K Burger Ortosképzés 1928 xviii Sonder \r 33

Gynec to 9 xvi 845

OBSTUTRICS

Pregnancy and Its Complications Spurious pregnancy R PADDOCK Am J Obst &

The diagnosis of pregnancy in g neral practice. Voll. MANN Deutsche med Wehnschr 1928 hv gor The diagnosis of pregnancy by the test for hormones of the anterior tobe of the hypophysis in the urine S Ascritery and B Zoyder Alm Webische 1928 vii

1404 The diagnosis of pregnancy by the test for hormones of th auterior lobe of the hypophysis in the trine 5 Aschinging and B Zoodes. Il Practical and theoretical

results of the unne examination S Aschneim Klin Wehnschr 1928 vu 1451 The influence of a rum of the different stages of se tation

on the action of hypophysin II BIEHLE Arch I Cynaek 1027 CXXXII 200 211 The Aschhein Zondek hormone test for pregnancy II W Lours and M Rosevzwere J Am M Ass

1928 XCI 1989 A new technique for roentgen diagnosis of early preg nancy G Albano Zentralbl f Gynnek 1928 lu 2084

Diagno tic roentgenology and obstetrics M FAVRFAU J de méd le Bordeaux 19 8 cv 727 Craphic reconstruction of a very young embryo J LLOR AN Spisy lek. Lak Mararyk Univ 1928 vi t

The period of gestation and the maturity of the fetus If Seltitets Med Klin 1928 xxiv 1073 The reaction of the body in pregnancy & Lungwitt

(345) Irch f Gynaek 1018 execut ice The function of the liver in pregnancy I Stora e of dye tuffs in pregnancy II FUPTNOER and C W BADER

Arch f Gynael 1928 CXXIII 720
The function of the liver in pre-nancy II The occur 13461 encourses where user in pregnancy. If The occurrence of vicerosen ory hepatic bile reflexes in pregnancy. It Eurivoza Arch I Cynack 1925 caxim 73; Legnancy and the pulmonary circulation. The physiology of pregnancy. If Lewis Zertraff I Gynaek 1928 In 1918.

The significance of colloidal structure in pregnancy H ELFINGER Deut che med Wehnschr 1928 by 1204

The hydrogen ion concentration in the blood durin pregnancy labor and the puerpenum A Bock Arch f Gynaek 1918 CXXXI 468

Ultrafiltrable calcium potassium and sodium during normal and patholom al pregnancy M Robeccar A AGENIG and A RELEVBURGER Atschr f G burtsh u Cynaek 1929 xcut 410.

Estimations of the calcium in the blood serum of mother and thild A SCHOENE Monatsschr f Geburtsh u [347] Gynaek 1928 lxxviii 32

The cal ium content of the blood at different stage of pregnancy and in ton oses and puerperal diseases M SSERDILBOFF and A MOROSOVA Monateschr f Geburtsh n Gynaek 1923 lexvm 237 13471

Riological differences between the setum of the mother and child L Gozave Orvosi hetil 1928 hum 739 The surface tension of the serum during pre many LUFFAGER Monatsschr f Geburtsh u Gynack 19 3

1xxx 271 Decidual formation in the ovary during pregnancy

Brit M J 1928 11 1037 Further contribution on displacement of the excum during pregnancy FOETH and OBLADEN Deutsche med Wehnschr 192 by 819

The value of the lateral mea crements of the privi-(conjugata la erali) J Fo aver. Deu sete m Wchnechr roz8 hy goo

Roentgen picture of the oblique pelvi J Gagaco Orvasképzés 1929 zvut Sonder vr 82

Pregnancy with complications D II BES ESSEN I Indiana State M 444 1928 21, 521 Di turbances in the basal metaboli in during pregnancy

and the puerperium F Wesever Muenthen med Wehnschr 19 8 ltxv 1285

Four unusual obstetrical cases Inglis V ceiled M / 1928 xxv11 351 The theory of the birth sex ratio and the determina an

of sex in man A E Bresta, 1918 Stuttgart Ferdinard

Ectopic ge tation an analysi of fifty consecuti e cases J B Dawson Med J Australia 1928 n 616 A study of the uterine and tubal decidual reaction in

tubal pregnancy based on the histological examination of the tubes and endom true of fifty three ca es of eclopic gestation A R MORITZ and M DOUGLAS Surg G a.c. & Obst 1028 xlvu 78c

Uterine and extra uterine pregnance H F Minara Am M As 1028 zes 1823

Extra uterine pre-mancy analy is of twenty-t git ca-es Il POLLOK Texas State f 11 1028 XXIV 4 Sp cimen of pregnancy in a completely detached left

horn of a uterus bicorni unicoll s Sie E. Vittes I roc. Roy Soc Med Lond 19 8 xm 1 9

A case of tubal twin pregnancy H E Jordan act R II MEADE Jr Virginia M Month 1928 by 60 Tubal twin pregnancy R. Baows Sing Clin & Am 1925 VIII 1307

The su gical treatment of the pentoneal lessor in intra ligamentous tubal premancy A Guents B willes and 10 3 vm 1661 A case of unsuptured interstitial tubal pregramy R W

JOHNSTONE J Oust & Gynaec Brit Emp 1919 xxxx Tubal pregnancy in a case of ovarian tumor with the

report of a case F VORLEKER Zentralbl. I Gynatk 1928 ht 2224 Death of one fetus during the course of twin pre-nancy from torsion of the unb'h al cord P A Lanna M !

FALSIA and M L PEREZ Bol Soc de ob t y ginec de Buenos Ai es 1028 vu 332 Se ere obstetrical complications from pathological fira

tion of the aterus in antellerion H KLESTNEE Muenches med Wehn chr ross lavy road A further contribution on spontaneous cent al rupture of

the uterine cervit F FEDERLIN Zentralbi I Gynaet. 1028 lu 2037 H G MIDDLERAUST Occiput po terior po tion

Luginia M Month 1028 ly 645 Rare skin change in pregnancy F LASSER Med

khn 1928 xxiv 933 Recutring toxis ravid dermato is printed of pregnat y

1928 VII 374 Skin pigmentation during pregnancy the relation of

toxxima of pregnancy to abnormal pigmentosis and the influence of pregnancy on Recklinghau en s doca e 5. MISHELARS Jap J Obst & Groce 10 3 21 241

Skin pigmentation during pregnancy I A imtometer for skin pigmentation of gravid a d non gravid women in Japan S Vishizakii Jap J Obst & Gynec 1918 it 296 Sacral herma of a retroflexed gravid uterus following amputation of the rectum and re ection of the sacrum E Fischer Zentralbl f Gynaek 1028 li 2058 Perforated uterus with strangulated herma A A

VIATTHEWS Surg Clin N Am 1929 viii 1457 Chorea gravidarum A M Campbell Am J Ob t & Gynec 1938 xv1 891

Retinitis of pregnancy J W LEECH Rhode Island W

Bronchal asthma as a complication of pregnancy R
SPIEGLER Monateschr I Geburtsh u Gynnek 1928

IXIX 193
Pregnancy and tuberuloss E SCHESG Ztschr f

Pregnancy and tuberulosi E SCHRG Zeschi i Tuberk 1918 it 119

Brain syphilis in a gravid woman cured by malaria

treatment A SARBÓ Orvosi hetil 1928 lvni 682 Acase of pernicious animia of pregnancy A J Gutery and Jakob Bol Soc de obst y ginec de Buenos Aire 1938 vii 415

1923 vii 445 Heart disease and pregnancy J Otro Orvosképzé 1923 xviii Sonder \r 118

Cardiac disease in pregnancy B F Hamilton and F S
Kriloco J Am M Ass 1928 xci 1942
Observations upon the evolution of the cardiopathies of

pregnancy L TRÍAS DF BES Rev méd de Barcelona 1929 v 329

lleus in pregnancy H KEMKES Deut che med Wichnschr 1928 hv 1161 The nature and treatment of gly cosuma during pregnancy

E Voir Therap d Gegenw 1928 lvix 299
Diabetes and pregnancy 1 UMBER and M R MENBER

Ztschr f klin Med 1928 cvni 33 In ulin in obstetnes O S HVSEN Vinnesota Ved 1928 zi 801

Pyelitis of pregnancy E Pretifer Gyogya 23t 1025 levin 315 342 303 415

Contribution on the etiology and treatment of pychti

Considerations upon two cases of nephritis and pregnancy A J Gurrov and L ROSENWASER Bol Soc de ob t y ginec de Buenos Aires 1928 vii 368

Comiting of pregnancy J Am VI Ass 1928 ver 193
The prognosis of pernicious vomiting of pregnancy 1a ed on blood chemistry (acetone bodies) S 521RK4 Orvo

sképzés 1928 avin Sonder Nr. 129 Toszmias of pregnancy F L Adair J Lancet 1928 alvin 535

Separating the toxximus of preguancy into the dy homonoses, the dysneurovegetoses the dysnonoses and the dyscolloidoses of pregnancy L Serra and H EUFINCER

Muenchen med Wehnschr 1928 hxv 980
A sug estion as to the etiology of eclamp in N ELLLR
BACK Muenchen med Wehnschr 1928 1 xv 1939
Eclamp in occurrance

ARCA Muenchen med Mchaschr 1928 I vv 1939

Eclamp is occurring three times in the same patient

Laty Zentralbi f Cynaek 1928 lii 1792

Aote on the apparent absence of pre-sor jubstances in

eclampts serum D G E I OTDR J Ob t & 65 nac.

But Lmp 19 8 xxv 43

Eclamp 12 and infant mortality B Tins Zentralbi f

Gynaek 1928 lu 1928
Eclamp ta and albuminuria Brit M J 1928 u 1939
The u e of morphine in eclamp in A M Days 50

And a c or morpointe in example as [348]

4 ca e of double mon ter M UMAR Indian M Gaz

1918 lui 706

A study of the ery throcytes of the human fetu F Ma.)

Jap J Ol t & Gynec 1928 x 251
Physiological intelligation of the fetu Report 5
Cupplementary research of ferments in the d ge tive organ

lipase in the liver T TACHBANA Jap J Obst & Cynec 1928 xi 220
Physiological investigation of the fetus Report 6

Physiological investigation of the fetus keptort of Supplementary research of ferments in the digestive organs lipase in the intestines T Tacutana Jap J Obst & Gynec 1918 xt 227

Premature separation of the normally implanted placenta J W O CONVOR New England J Med 1928

cxcx 1248

The management of placenta pravia I Sztenio
Oroo i Hetil 1018 lxxii 850

Perforation of the uterus in a case of adherent placenta Baranow Zentralbl f Gynael, 19 8 ln 2150 Autolysis of the placenta S Mizohara and T Fachi

Autolysis of the placenta S Mizzinara and T Facini Bana Jap J Obst & Cynec 1928 31 288 Bacillus pyocyaneus bacteræmia of placental origin J

D Soffer Am J Obst & Gynec 1928 XVI 989
Abortion its dangers and prevention W Lierwinn
Jahresk f aerztl Fortbild 19 8 xiz 21

Jahresk f serzil Fortbild 19 9 x15 21
Handling ca es of abortion II I BROCKMANN South
M & S 1929 xc 809

An experimental investigation concerning toric abortion produced by chemical agents M. M. Darvow. J. Ob. t. & Gynzec. Brit. Emp. 10. 8. xxxv. 603.

Cerebral emboli m following attempts at abortion O Hassemors: Muenchen med Wohn chr 1928 kxx

Therapeutic abortion for acute hydramnion B Gyular Ono Lépzé 1928 x 111 Sonder \r 63 Therapeutic abortion by mean of the roentgen ray

W Trenst Strahlentherapie 1028 TVN 49f
The value of antenatal care N M TALKINER In h J
M Sc 1028 No 36 740

Labor and Its Complications

The increased stillbirth rate Benner \ Zealand \ J 1028 vvvii 382
The hi tological changes in irregular rupture of the

membranes I STENTEH Orvoképzé 1928 xvm Sonder vr 113 The mechanism of spontaneous delivery (Denmann) and

the influence of Bandi's contraction ring upon it P SCHUMACHER Zentralbl f Gynack 1928 in 2140 The effect of physiological labor on function of the kidney S STERANCHE OTTO kepiges 1928 xxm

The management of weak labor pains G PALL

Orosképz s 1928 kvili Sonder Vr 67
Gravitol a new echolic Schilder and Scholl Muen
chen med Wchnschr 1928 lxxv 1283

Why concentrated hypophyseal extracts? Offergeld Therap d Gegenw 102 lxvn 407

The conduct of labor in pregnancy carried beyond term

F WITTENBECK Zentralbi f Cynack 1028 lu 1270

F WITTENBECK Zentralbl f Cynack 1928 In 1759
The operative treatment of breech pre entation O
KLESTNER Monatsschr f Geburtsh u Gynack 1928
lexum 379

Occiput anterior and occiput posterior presentation II ALJONS Zentralbl f Gynaek 1928 ln 1899

Congrutal ectopic kidney as a tumor prævia in labor

A P Raxios Gynic et obst 1928 xvii 97 [348]

Experiences with the Lweifel forceps P Hirksy

Zentralbl f Gynack 1928, lu 2031
Rationalizio, the protection of the perineum R T 101
Laseria 6 Arch f General 1928

JASCINE Arch f Gynaek 1928 ctxxiv 193
Syncope during labor k Boenner Deutsche Zischr
i d ges genehal Med 1928 xu s

Labor in cases of heart disease } kevki Jap J
Ob t & Gynec 1018 x1 200

The treatment of fetal asphyria during labor E Spier Zentralbi I Cynack 1928 ht 265; Ob tetrics and brain injure during labor Pri Schwartz Zentralbi I Gynack 1928 ht 2146 The indications for exacteral section G E Thouses

J South Carolina M Ass 1918 xxiv 272
Some in torical notes on the technique of caesarean ection L E Phaneur Surg Gynec & Obst 1928

ection L E PHANELY Surg Gynec & Obst 1928 vivu 832 A new mo lification of the technique of cervical exsarean

section (suture of the round h aments over the uterine suture) B Aschnyr Zentralhi f Gynaek 1928 in 1977 Cesarean section on a dwarf aged forty years J T Masov and H C TURNER Surg Clin N Im 1928 viii 1451

Three cases of Portes operation A B I VRIQUEZ and O JUERCENS Bol Soc deads tyginec de Buenos Aires 1928 vil 352

Attempts at improving obstetrical twilight sleep H Kieviin Zentralbi f Gynaek 1928 In 1946

Regional arrestic in m'o stetrics. W. Parkits and 4.5 JONES New Ingland J. Med. 1923. Cutter 9.3. [349] Controllat le spinal arristhesia in obstetrics. C. P. Pitrax and F. C. NCCORMACK. Surg. Gynec. & Ohyt. 1923. Xiv. 123. [349] Scopolarmine arrestic is in the second stage of abnormal

labor B Van Hoosen And I 1928 vn 353 Oh tetrical operations under local anesthe in B Cattat Orio képzes 1928 xviii Sonder Nr, 38 Increa ing the tonu of the uterus in the third stage of

Increa ing the fonu of the aterus in the third stage of labor with tonopleon E Sorvis Deutschemed Wehn chr 1038 liv 964
Is manual extraction of the placents a dange our

ob tetrical procedure. H. HEIDLER and B. STEINHARDT flin y lab. 1918 niv 309.

Kemark on the Kin teller expression based on a case of fetal ril fracture during labor. E. DANTEL Oreo képzés.

1028 XVIII Sonder Vr Ot

I uerperium and Its Complications

The presence of cassens in the mother's milk following the dinking of cosses. I Scienza and R Wom's Arch f Gynack 1928 exercis 201

A humatoma of the vulva the size of a child's head following spontaneous labor C Galla Rozhledy's chir 1927 vi 270

A case of inversion of the uterus after delivery R
POLLÁR Med Klin 1918 xuv 974
Aca coffu rperal uterine inversion C Duverges and

O Just Ens Hol Soc de oh t y ginec de Buenos Aires
1929 VI A35
Po tpartum airema [A Powell and] B Diver

Brit M J 1928 u 1131
Card ac activity and the puerpersum W Halpr
Ztschr f krei laissorsch 1928 xr 320

Two rate cases of puerperal thrombo 1 \ Lasz 6
Ortosképzés 1928 xvii. 102
Gymnastic exerci es for the prevention of thrombo is

Gymnastic exercites for the prevention of thrombo is and embolin following labor and operations: Walthur Arch f Gynack 1928 CYCRU 357
Gengrens of the extremits a following normal labor tubal

pregnancy and septic abortion W Schmidt Zentralt I f

Endangering partament and partneral women by foci of infection in the mouths of midwives I I Horrians Muenchen med Wichnschr 1928 kmy 905

Mucochen med tremseur 1935 txx 903

An experimental study of the 5 run treatment of puerperal fever B LANG and A LASLIG Orvosképzés 1923 xviii Sonder Nr 145

Streptococcal vaccines in the treatment of purperal epsis R R ARMSTRONG and W Snew Brit M I in t 1082

The development of generalized acute miliary tuberculosis in the puerpersum D RAISZ Orvosképzés 19 % avus Sonder Nr 73

Newborn

The determination of paternity according to his and from the cientific standpoint If Selliners 102 Munich Bergmann

The importance of the care of the newly bora mant.

T C NEFF J Kansas M Soc. 1928 xxx 398
The presention and treatment of neonatal morbidity and
mortal ty J Freenemann Illinoi M J 1928 h 42

mortal ty J FRENGIANV Illimi M J 1933 h 43. The management of genorrhexal opthalmus T D Four Tri State Med J 1938 1 64 Instrumental care of the unabilius F Tornav

Orvosképzés 1923 zvni Sonder Nr. 30 The tendency toward hæmortha, e in the new som bised on a rare case D Raisz Orvosképzés 1923 am Sonder Nr. 70

Anzemia and jaundice in a newborn child H II C GREGORY Proc Roy Soc Med Lond 1978 xii 116 A ca e of tetanus neonatorum—recov ry Glagor II I 10 S cv 354

A further contribution on congenital defects of the sur a familial and fatal d sea e with vesicle formation a 1 to congenital defect of the skin. I HEINEIGEBEUGE AND I Gynack 1928 CENSIV 6 3

Investigation of the cerebral nerves of an anticty m'as S Shinozakii Jap J Obst & Gynec 1928 x 83 Cranial and intracranial damage in the newtons. D

MUNRO Surg Gymec & Obst 1928 xlvn 621 [356]
Obstetrical paralysis V MOONEY Pennsylvania M
J 1928 78711 140
A case of diaphragmatic hernia in an infant C H

Dodds and J D S Flew J Ob t & Gynace Dat Emp 1928 XXXV 737 Specimens from a ca e of con ental deficiency in ab dominal muscles A Monograph Proc Roy Soc Med

I ond 1948 xxu 139

Miscellaneous

Fertile martia es and decreased birth rate in German II ALBERCHT Zentrallo I Gypack. 938 la 1152. Concerning the fate of women following the decive not to perform abortion II Goldschutter Med. Kkn

1928 Xx 1 100;
Is the fertility of women compromised by abortion?
10000000 Arch I Frauenh u Konstitu ionsforsch 1936

Ob tetrics in the home and in the clinic V Husch

Med Klin 1928 xxiv 96 Some obstetrical experience T G William Med J Australia 1 8 u 777 Some obstetrical experiences W A Vazco Med J

Au tralia 1928 ii 779
Some obstetrical experiences J & Bo reas Med J
Au tralia 928 ii 781

Au tralia 928 ii 781

The mortality of pregnancy labor and the puerperum

H NEVERNAN 2 ptraib! I Gynaek. 1018 lb., 235

What therapeutic measures has pharma ology to offer mosternes? Eremours: Muenchen med Wehnschr 1943

txx 1281

The cerebrospinal fluid in obstetrics S Mizurara Jap J Ob t & Gynec 1028 x1 282 Of servations the color of the urine during pregnancy labor and the puerperium O HEESCH Klin Wchrischt

1023 VII 1421

The treatment of syphilitic mothers and children in wel fare stations M Hair. Ztschr f Geburtsh u Gynaek 1028 XVIII 205 218 Strix gravidarum of Japanese women S Mizunara and S FURUI Jap J Obst & Ginec 10 8 x1 281

GENITO-URINARY SURGERY

Adrenal Kidnes and Ureter

The present status of the adrenal problem C A DRAGSTEDT Northwest Med 1928 TAVIL 557

A case of suprarenal syncope D ELLIS Guy s Ho p Rep Lond 1928 lxxviii 481

The scientific basis of cortical adrenal opotherapy I Mol 200 Pres e méd Par 1928 xxxvi 1379 Congenital ab ence of one kidney M I CAMPBELL

Ann Surg 1928 Ixxxviii 1939 A renal ectopia simulating an extra uterine pregnancy O JUERCENS Bol Soc de obst y ginec de Buenos Aire

1925 Val 379 Tests of renal efficiency II Blood analysis dye tests

A HARRISON Lancet 1928 ccxv 1143 The normal and the abnormal kidney (pelvi) and

ureter R L ANDERSON J Am M Ass 1928 xc1 1792 Movatle kidney A JURASZ Proc Roy Soc Med Lond 19 8 XXII 200

The physiology of the milking muscle of the kidney V Vicschar Am J Med Sc 1928 clayer 8,1 Congenital hydronephrosis O F LAWSON Surg Clin

\ Am 1028 VIII 1435 Hydronephro is due to an anomalou renal blood vessel O I LAMSON Surg Clin N Am 1928 VIII 1430 Pyelo ureteroplastic correction of an enormous hydro-

nephrosis I C SARGENT I Urol 1028 XX 613 Delography M B Wessoy California & West Med 1923 XXIV 207 [551] Pjelih R F Thornmal Virginia M Month 1923 [3511

Pyeliti and pyelonephritis A G Grasov I ancet

1929 CCEV 903 Pyelonephritis \ II CROSBIE Northwest Med [351] TIVE STO 1928 13521

Farly tuberculosis of the kilines C B Taylor Oklahoma State M Ass 1928 xxi 349 Tuberculo 1 of the kidney P M McNett J Okla

homa State VI Ass 1028 XXI 352 Surgical treatment of tuberculo is of the kidney L Long J Oklahoma State VI Ass 1929 xxi 357

Bilateral renal tubercule is end stage with clero is and calcification D F Rometck J Urol 1928 xv 62 [352] Albuminous stones in the renal pelvis attempt at their hi tochemical decomposition J TROULTESCH Zt. chr f

urol Chir 1928 xxiv 448

Cal ulous anuria G I Cantill and H H Gile J Am VI A . 1928 XC1 1970 [353] Report of a ca e of bilateral cystic Lidney L T PRICE Vargania VI Month 1928 1 600

The renal circulation following various elongations of Dislotomy men ions C L DENING J Urol 1928 xx 713 Andney resection \ J Scitcle Ann Surg 1928 lexxvai ross

Supernumerary ectopic ureters W M SPITZER and I E WALLEY Ann Surg 1928 breavon 1953

The ela ticity of the fetal ureter II BANIECKI Zentralbl f Gynack tor9 lt 15 6 Creteral ob truction in infancy M I CAMPBELL Am J Surg 19 9 V 44

[353]

Extrinsic ureteral strictures C O Rirch Illinois M 1928 by 435

Ureteral calculus W B HOLDEN Surg Chn V 1m 1928 VIII 1407

An impacted stone in the ureter A A MATTHEWS Surg Clin V Am 1928 viii 1461

Extraction of calculi of the ureter through the natural passages G Luxs Bull et mem Soc d chirurgiens de Par 1028 xx 682

An impacted stone in the lower ureter removed by incision through the posterior bladder R Brows Surg Clin N Am 1928 vin 1311

The treatment of ureteral fi tule by radiotherapy of the kidney J Seveque Pre se med Par 1928 xxxvi 1330 Transplantation of the ureters into the large intestine R C Correy Surg Gynec & Obst 1928 tlvn 593

Modifie I Coffey technique for uretero-intestinal anas tomos: H D FURNISS J Urol 1928 xx 680

Bladder Urethra and Penis

Repla ement of the vesical sphincter Bracher Arch f Gynaek 19 7 cxxxii 68 86

Sphincter hypertrophy as the cause of chronic urinary retention F Stree Schweiz med Wchnschr 1928 lvm 50

The esicorenal reflux GRIPELOVEN Bruxelles med 1028 VIII 1641 A roentgen study of the paralytic bladder F FLCHS and H Horr Ztschr f urol Chir 1928 XXIV 521

Extrava ation from the lower urinary tract RAVENEL South M & S 1028 to 811 Submucous fibrosis (localized cystitis) W 1 FRONTZ

South M J 1928 tx 800 [353 Stone in the bladder H Cabor J Am M Ass 1928 13541

Rese tion of obstructions at the vesical orifice with the maximilian stern resectoscope T M Davis J South Carolina M Ass 1928 txiv 274

The treatment of malignant tumors of the bladder R DARGET J de méd de Bordeaux 1928 xv 61

The surgi al treatment of malignant tumors of the blad der V C Huvr J Am M 188 1028 xci 1704 [354] Practical surgery Some of the acute and subacute emergencies in the surgery of the urethra and the bladder

J F SUMMERS Vebraska State W J 1928 XIII 450 Repair of epi padias and exstrophy of the bladder E W ROCKEY Surg Clin \ \ Im 19 8 viii 1503 Epi padias in females and its surgi al treatment D M

Davis Surg Gynec & Obst 1928 zlvu 680 [354] Congenital valvular obstruction of the urethra H B KING and W P H SHELDOY Lancet 1928 CCXV 1126 Stricture of the female urethm \ E ANDERSON Northwest Med 1928 xxvii 520

[355]

Genital Organs

Pseudohermaphroditism T V Dickinson Proc Roy Soc Med Lond 1928 xx11 137

One hundred ca es of gonorrheea treated by trypaflavine MENDEZ ALLARIZ Arch de med cirug y especial 1023 IN 673

A new pro edure in the treatment of gonorrham M Duray Bruxel es med 1928 his 1650

Pyretotherapy in the treatment of gonorth ra by indic ing asepti abscess S Virris New England J Med 1929 Ct 14 1011 The importance of early differential diagnosis in genital ulcerations in the male 1 B GREEVE Pennsylvania

M J 1928 XXXII 163 A study of the ve ical retention in prostatics by cysto roentgenography in prof le in the recumbent and the erect positions G Boulland I resse med Par 1028 xxxx1

Pro tatic obstruction H Williams But M I 2028

The treatment of chronic prostatitis by injection O

GRANT South M J 1928 xx1 999
Medical and surgical problems in prostatic ob truction II II You'd New Lingland J Med 1918 excix 859 [355] Surgery of the pro tate gland with a report of operative results O S Loustry Iro Roy Soc Med Lond

1928 XXII 35 The author's cautery punch for prostatic ob truction J R. CAUCK J Oklahoma State M 4ss 1928 xx1

Three case of prostatectomy (Freyer's operation) 1

Pro tatectomy Penneal versus suprapulac route 1 C A GALL Northwest Med 1928 xvvii 566

Suprapulic prostatectomy W S Pich Med J & kee to 8 cexvm 613 Ischiorectal pro tate tomy with of ervation on p e

operative examination of prostatic patients. O Outili Zis hr f urol Chir 10 8 xxv 104

I rimary surcoma of the pro tate and seminal vesicles
A Wassitzer Zis hr f urol Chir 1928 xxv z
The pathology of epididymutis H C ROLNER Surg Gynec & Ol t 1938 xlvii 806

The intravenous administration of sodium iodide in the treatment of gonorrhocal epid fymiti. J S CHALMERS Virginia M Month 1928 I 65 Tuberculo is of the epididymis a critical review based

on the study of ninety four ases. H. L. KRETSCHMER Surg Gynec & Obst 1929 xlvn 6 2 Management of the operative stump a d prophylactic

ligation of the ductos deferens in operations for genital tuberculosis P D SSOLOBORY Arch f khn Chir 10 8

The pathological changes in the seminal vesicles (based on postmortem mat rial) A A Wa stijepp Ztschr f urol Chir 1928 xxiv 502

Traumat c orchitis a mi nomer M B Wesson

J Am M 145, 19 8 xc1 18 7 Monns orchitis with e pecial reference to sterility re port of the cases F I Twenty New England J Med

10 8 excit 1262

Acute torsion of an undescended testis in an infant aged eight months & J FELDSTEIN Am J Dis Child 19 8 XXTVI 1231 The formes frustes of tarsion f the sessile hydroid of Morgagnt \ Moucher Pre se med Par 1028 xxxx

Structure of testicular grafts four years and five months old I REFTERER and C ALEXANDESCU J du of med

et chir 1928 xxvi 213 The treatment of a case of mal hypospad as A R CECIL. Surg Clin A Am 1028 vill 1343

The treatment of a case of male epupidias 1 B CECTL Surg Che A Am 1929 vui 1531 Plastic operation on the penis W B Hotors Surg

Chn N Am 1028 viii 1400 Orchidopery for varicocele W E Courts Ann Surg 1018 lxxxviii 1003

Miscellaneous

Tveryday gen to utmary p oblems II C llindou Pennsylvania M J 1928 xxvii 151 Furopean urology F HENNAY California & Net

Vicd 1918 xxiv 307 The relative alue of the symptomatology in the disp no : of diseases of the unnary tract 1 | Texas) Indiana State VI Ass 1929 xti 515 Pain from a prological standpoint C D Downte

Northwest Med 1928 xxvii 560 The prological problems of chilthood A I Deese

Virginia M Month 1028 ly 62 The comparative study of methods of estimatin un acid in the urine R CALATROYI and A Toxisi Res

argent de biol 1928 is 403.
The determination of the presence and significance of reducing substances in the unire I The pracumorers results L C Donns Lancet 1929 ccxv 1 00 The determination of the presence and signin ance of

reducing substances in the unne H L C Dorps Lartti 1918 CCEV 1255 The physiology of micturition T H Renewal I

Am M Ass 1028 xt; 1060 Non-obstructive suppression of urine 1 4 Ossux

Lancet 1928 cerv 1333 The present conception of enuresis M NATES Presse med Par 1026 xxxvi 1363

Acute unnary extravasation W R MEEKER South M J 028 xx1 1018
Tuberculosis of the genital tract H C BLEY'S Iz and G J Thompsov Surg Gynec & Obst 1928 xl z

The surgical treatment of u ogenital tuberculoss. HINKAN SURE Chn \ Am 918 vin 1 95 The surgical treatment of lover tract t berculoss gent A review of urological surgery 4 J School, J S Judy D. D. Keyser C S Follos J Lerberger and 1 I Kuzmann ligh Surg 1929 xvn 1951 tal and vesical F HINMAN J Urol 1928 XX 551

SURGERY OF THE BONES, JOINTS MUSCLES TENDONS

Conditions of the Bones Joints Muscles Tendons Ltc

The pr sent conception of the growth of bone] C GHOSIL Calcutta VI J 1928 XXIII 2 8 Experiments on influencing the length growth of bones P PITTEN Zts hr f orthop Chir 1928 the 554

The regeneration of bone in its relation to surged H Dierrich Muenchen med Wehnschr 1928 les The causes of pseudarthroses and their treatment L.

BOERLER Min Wehn the 1928 vii 1357 Tre influence of the sex gland on the growth of bone 1 kno 181 hol endocrin jap 1925 W 37

Considerations upon exostoses B VIANNA Folha med

Come physiological ideas useful for the understanding of bone pathology R LERICHE and A POLICARD Presse gid Par 1918 xxxvi 1281

A ca e of osteomalacia treated by thymus transplanta 100 O knoon Endokrinologie 1928 ii 40 The curative action of irradiated ergosterine in rickets

The curative action of irradiated ergosterine in rickets
P ARMIND-DELILLE and J BERTRAND Bull et mém Soc
méd d hôp de Par 19 8 xhv 1418
Arute ostromiclites in childhood O Huebler Wien

med Wchnschr 1927 1928 kxvn 1430 1490 1521 [3-7] The roentgen treatment of a ute exacerbations of chronic

osteomyelius M Scalitzer Strahlentherapie 1928 grit 311

Osteosclerosis fragilitas generalisata (Albers Schoen

berg s disease) W LAUTERBURG Schweiz med Wchnischr 1928 Ivin 627 Bone changes in leprosy R Hopkins Radiology 1928

n 410
The significance of parathyroid enlargement in general ued ostetus fibrosa (Recklinghausen) F Gold Mitt a

d Grenzgeb d Med u Chir 1928 xli 63
Two cases of fibrocystic disease of bone C I MARSH

att Proc Roy Soc Med Lond 1928 xxu 144
Basal-cell epithehoma of osseous structures W

McDeed Texas State M J 1928 xxiv 537
Myelosarcoma L Schultz and E C Piette Padi

The question of chondystrophy W DAHS Arch forthop u Unfall Chir 1928 xxvi 520

An achondroplastic twin A WARNER Brit M J

Pernyaphy of the joints W DANN Schweiz med Wchaschr 1928 Run 551 Chronic joint changes following trauma Koenics

SISTE ZISCH forthop Chr 1278 the 158
Arthuris J B CAREY Minnesota Med 1028 x 1797
The pathology and treatment of pogenic arthuris
D B PHENESTER Pennsylvania M J 1928 xxxxx 52
Non specific arthuris with the picture of tuberculosis

(apparent tuberculosis pseudotuberculosis) II FRILD

BLCT Muenchen med Wichnschr 1928 1379 1353

Functional new growths in arthritus joints or late result
of epiphyseal separation? A NESBRAIM Zentralbl f

Emr 1928 Iv 2054
Further studies in the hydrogen ion concentration of estudies into joints C H LASCH Arch f klin Chir 1928 cl 506

The profilem of ankylosed or partially ankylo ed joints C F Elika-Bury Northwest Med 1928 axvii 575 Muscular hypotomia associated with hypotylecrmia C. Wosster Drot out Proc Roy Soc Med Lond 1915 xm 122.

Traumatic ossilying myositis I B Sr Jony Ann

The pathogenesis of or slying myosilis B Vianna Folka mel 1918 ir. 243
Lostural relieves in relation to the correction of impose body position R S Haves Am J Dis Child 1918 Irin;

Thort injuries their diagno is and treatment I Mixik Lifec vije nik u Zagrebu 1928 1 850 Scapu ar resection for sarcoma R VALSÁXVI Orto-

de med cirux y e pecul 1928 ix 417

"Thi uc disea e of the radius H C Enwards I roc
Roy Soc Med Lond 1928 XXII 155

Familial syno to is of the radius and ulna WANDEL Zentralbl f Chir 1028 by 074 l'upiture of the biceps tendon from the radial tuberosity F Kerschiver Zentralbl f Chir 1928 h 1989

F RESCHAER Zentraibi 1 Chir 1928 h 1939 Isolated tuberculosis of the carpus—its diagnosis and treatment M C Mexsor California & West Med

treatment M C MENSOR California & West Med 1928 xxix 336 Kienboeck's di ea e of the carpal lunate Z Hrabov

SZKY Magy Roentgen Koezl 19 9 23

The treatment of nectors of the carpal lunate

BEHREND Zentralb! f Chir 1928 lv 1875
Syndactylia and polydactylia of familial character
BONNET and TREVES Bull et mem Soc d chirurgiens de

Par 1928 xx 677
Snapping finger H Peiper Arch f klin Chir 19 8

cl 406
Congenital short neck E I RITCHARD Proc Roy Soc

Wed Lond to 8 vtn 130
Wry neck and its treatment Wiemers Zentraibl f

The posterior cervical sympathetic syndrome and chronic cervical arthritis L Yong Choen Pre se med I ar

Congenital deformity of the spine C P G WALLEY
Proc Roy Soc Med Lond 1928 xvii 150
Congenital abnormal vertebræ report of three cases

S W DONALDSON Am J Roentgenol 1928 xx 344 Certain previously seldom ob erved peculiarities of the adult and child vertebræ Schaiore. Arch I klin Chr 1928 cl 420

Certain diagnostically misleading developmental an omalies of the vertebræ R J HARRENSTFIN Zischr I orthop Chir 10 8 vliv 508

Experimental study (animal) of scolo 1 Meeler Ztschr f orthop Chir 1928 Iviv Beihefte 245 The dystonia of torsion of the colon hyphotic variety

O Di Lillo and C BRUCHMANN Bol inst de lin guir 1918 Is 00 Spondyloh the is and pre pondyloh thesis A Schiltz Zischr f orthop Chir 1928 this 546

How often with our treatment and in our judgment as traumatic surgeons does Kuemmell s di ea e follow trauma to the vertebre? If Island Schweiz med Wchischr

1928 lvm 645 Backa he A M RECHTMAN Pennsylvania M J 19 3 xxxii 150

Pain in the back II C Blair Sorthwe t Med 1329
xx 11 562
Back pain from the orthopedic point of view I D

Back pain from the orthopedic point of view I I Dickson J Mi souri State M As 1028 xxv 553
Backa he from the genecological standpoint H 5
CR) SEN J Missuuri State M As 1028 xxv 550

The relationship of the genuto urinary organs to back ache J R CALLA J Mis our State M 188 1928 xxs

S55
Xay examination of the lumboxacral region with reference to low back pain I I LIE J Mis ouri State M
Ass 10 8 xxv 501

Sacral and back pains P H Kelle Zentralbl f Cynaek 1918 hi 1980

Sacro-diac pain W Harris Lancet 19 9 ccxs
1230
Infect ous pondylitis 5 1 Pokrowski Deut che

med Wehnschi 1928 hv 935
The earl diagno is of tuberculo is pondyliti. S
KOPHAN 72 that Orthop Chir 1928 his 542
Tuberculo is spondylitis T Fikks. H35p Til 1928

Staphylococcic courts as a complication of inguinal adents. E A Saive pe 1/14 Clin 3 lal 10 8 113 201

400 The earl

The early roentgen lessons of covalga and ostenchondrits of the hip E IRRELL Rev d orthop 1928 xv 302
Sinking and flattening of the buttocks The treatment of

static-dynamic decompensation M Juneway Wien

Lin Wehn chr 1928 all 1113

Osteochondritis deformans just embr. (Calve Legg Perthes disease) A. SANDO. Beitr z Elin Chir 1938 e'tlir 1850. Roentgenological tudies on the relationship between osteochondritis deformans coxx juvenibs and congenital tislocation of the hip as suggested by Calot. A Scitotz.

treh f orthop u Unfall Chir 1929 xxx1 572
Cova valga luxans contracta with a consideration of the whole field of osteochondritis Piscin Ztschr f orthop

Chir tot9 xlix 170

Coxa vara adnata chondrodystrophics K FREUND Arch I orthop u Unfall Chir 1928 xxv 531 Bilateral spontaneous rupture of the quadriceps tendon Day Zentrallol I Chir 1928 by 2001

Derangements of the knee joint M S HENDERSON

Tri State Med J 1928 1 38
Supping patella G S DUDLEY Ann Surg 1928
Sarvin 1108
Swollen knee for diagnosis H A T FARBANE Proc

Swollen knee for diagnosis II A. T Patranas. Proc Roy Soc Med Lond 1928 xxii 149 Therapeutic pneumarthrosis in intra articular lesions of

the knee C GIACOBBE Chir d organ it movimento
1048 xn 433 [358]
Fal c and true tumors of the capsule of the knee joint
C WEGELIN Schweiz med Wchaschr 1948 lviu 722

A cyst of the medial meni cus of the knee k G I ANDALAI Indian M Gaz 192 Isin 705 A case of giant-cell sarcoma of the patellar ligament

A case of giant-cell sarroms of the patenar figament Govariez Acutian Arch de med cirug y especial 1928 is 43

The so-called congenital pseudirithron of the tibia R B Wapp I College-Surg Au trail is 1928 t 18t The pathology of congenital pseudarthron of the tilta K Ivolts J College Surg Australian 1928 1 194 Perrosuits of the tibia following amobic hepatitis R II

Honges Brit M J 19 8 u 1092 Two cases of a middle type of subtalar dislo atton of the

ankle inward and posteriorly E KLEINIAUS Fortschr a d Geb d Roentgenstrahlen 1928 vexyil 54 Variations of the bones of the foot fusion of the talus and navicular bilateral and congenital I B BLLLITT

Am J Roentgenol 1928 xx 548

Histology of the sesamoid bone of the first metatarsal
C CRUMP Arch I khn Chu 1928 cl 617

Typical sesamoid disease of the first metalar al with the formation of pus M Lance Zt chr f orthop Chir 1918 lats 595

1938 Eur. 595
O teochondropathy of the se amoud of the fir t meta tarsophalangeal joint and its relation to tatic in ufficiency of the anterior portion of the foot F Mrss Arch forthop u Unfall Chir 1938 tx 1 581

The clinical picture of hallux rividus C Mat. Muen chen med Wchischt 1928 Ixv 1 93
Hallur valgu W K Hegites J College Surg Australisas 1928 1 2 4

Surgery of the Bones Joints Muscles Tendons Etc

Subchoodral transplantation of bone marrow in Perthes Acehlers and other bone conditions. M. KATEL-NELL Zentralb [Chr. 1938] VI 1872

The modeling o (cotomy according to Perthes its in dications and results. W. Bultisberger and J. Pont Bettr a kiln Chr. 1948 cxim. 584

The treatment of acute harmatogenous ostcomychia H PLATT Lancet 1973 CCX1 1301

The position of joints in arthrode is Has Zischr i orthop Chir 1928 xlix 384

The treatment of tuberculosis of the bones and joints H Simon and W Meisezahl. Fortschr d Therap 1978

14 4.53
Operative immobilization in vertebral tuberculous M
KIRSCHVER Ztschr I Tuberk 2028 ii 106 [337]
An operation for ankylosis of the hip point P W
ROBLER'S SUIF GORCE & Obst. 19 8 xivil 841

Bone resection to equalize the length of the legs J B
BALDWIN Ann Surg 1928 Exercise 1996
Transplantation of the legs Jarvin 1996

Transplantation of the gluteus medius muscle in convers L. Lawy Bull et mem Soc d chirurgens d Par 1928 xx Q

Late result in a ca e of suppurative arthrits of the knee treated by a transverse subpatellar noision and secondary suture C J Marshall Proc Roy Soc Med Lond 1928 axii 146
Subactute ostelus of the fibula diaphysral receipes re

covery Muller Bull, et mem Soc d chirup as de l'ar 1918 xx 00 Total resection of the tibiotarsal joint C Les 25/07 and I Wilmorn J dechir 1918 xxii 29/7 [339] Conservative or operative treatment of hallux isley

II Tramer Zentralbl f Chir 1028 lv 2123

Fractures and Dislocations

Traumatic dislocations R Sourier New German Surgery E H KUETTVER Vol 41 1918 Sintigent, Enke
On the treatment of fractures E W Her Grouzs

Brit M J 1928 n 993
The treatment of open fractures local and 5) t mater
polyvalent serum therapy P Massize Presser d Pa

1928 257vi 1386
Treatment of simple fractures T A Jon sov Illinois

M J 1928 hv 439
A contribution on the reduction of fractures R BC
NEAU Bull et mém Soc d chiru giens de Par 19 8
xx 672

The internal fixation of fractures and di focations by the u e of the buman fa. cal suture R. H. Pattracov Surg. 1938 Icravin 879. Experimental influence on the formation of cilian fractures. N. GLAESSER and J. HASS. Kim. Webaschr

1928 to 1633

The influence of vigantol on callu in experimental an

mal II HELLNER Deutsche Zischr f Chr. 19 3 cett 307. Os ification after fracture an experimental stud. I S RAYDN and M E MORRISON. Arch. Surg. 1028. 218.

The influe ce of a staminosis on the bealing of fractures.

S. P. Schilowzew. Deutsche Atschr. f. Chir. 19.8 cci.,

The Vray in the treatment of fractures

South M J 1928 xxi 1011

Statistical research on joint fractures Complete statistics on the fractures treated at the Ri zoli in tirute in

the period from 1800 to 1936 V PUTTI Chir d organd movimiento 1938 xii 442 | Tevention of chronic changes : the joints | Bosilier | Bosilier Zischr f orthop Chir 1928 zhi

The newer method of treating fracture of the upper and lower extremities B GRADOJEVIC Med Pregl 1928 II,

Treatment of complicated fractures of the arm and leg H Schmot Deutsche Ztschr f Chir 1028 ccix 182 Dislocation of the shoulder H MEYER Klin Wchn

schr 1028 VII 1378

Late reduction (fifth week) of a luvation of the shoulder complicated by partial fracture of the large tuberosity of the humerus Jeper Bull et msm Soc d chirurgiens de Par 2028 XX 607

Fractures of the upper end of the humerus R ZANOLI Chir d organi di movimento 1028 xii 445 Congenital hereditary bilateral dislocation of the elbows

P Smon Deutsche Ztschr f Chir 1928 ccix 338 Fractures of the ellow M CAMERATE Chir d organi di movimento 1928 xii 452

[361] Fa cial sling operation A proposal for the treatment of dilocation of the lower end of the ulna and upper end of the radius H Miles Arch f Llin Chir 1928 cli 176 Di location of the semilunar (os lunatum) carpai bone

L. Fre J Med Cincinnati 1928 ix 481 Fractures of the wrist A Solds Chir d organi di

movimento 1928 xii 466 Fractures of metacarpals and phalanges P B MAGNU

sov J Am V Ass 1028 xc1, 1339 A case of avul ion of the spinous process of a cervical vertebra J Dessaint Rev dorthop 1928 tv 414 [362]
Fracture of the spine C A STAMMEL Mil Surgeon

1928 Inn 843 Compression fracture of the vertebræ C F EILEN

BARY J Am M Ass 19 8 xc1 1694 The treatment of con enital dislocation of the hip by

open operation W R Mac ALSLAND Surg Gynec & Ost 1928 alvu 697 Irreducibility due to the interposition of soft parts in

congenital di location of the hip Mutel and Deroug Rev dorthop 1928 xxxv 385 The Lorenz forking procedure and its field of application

J Hass Ergebn d Chir u Orthop 1928 xxi 457 [363] Central luxation of the femur H Wertz Zentralbl f Char 1923 h 1942

Treatment of central dislocation of the femur AMBERGER Deutsche Zischr f Chir 1928 ccix 191 Fracture of the hip-open operation under local angsthesia

F G Di Bose Internat J Med & Surg 1928 xl1 585

Isolated avulsion fracture of the lesser trochanter of a pathological femur H STALDER Deutsche Ztschr f Chir 1028 CCx 287

Fractures of the neck of the femur F Dust Chir d organi di movimento 1928 xii 473 [363] Pequirements for healing of medial fractures of the

neck of the femur G ODELBERG JOHNSON Hygies Stockholm 1928 xc 475 The evolution of a splint for fractured femurs G F

BEASLEY Internat J Med & Surg 1918 xb 580 Fracture involving the knee R Zanoti Chir d

organi di movimento 1028 XII 482 Comparative results of external methods of osteosyn thesis in fractures of the leg CHARBONEL and MASSE

I de m d de Bordeaux 1928 cv ,78 Self reduced dislocation of the fibula I R LEMPRIERS

Bnt M I 1028 11 1136 Fractures of the malleoli G FALDINI Chir d organi di movimento 1028 vii 501 13651

Fracture of the lateral malleolu I MUEUSAM Deut sche Ztschr f Chir 1928 ccix 286 Rare luxations and fractures of the ankle H MESCHEDE

Deutsche Ztschr f Chir 1928 ccx1 200 Notes on an unusual case of fracture dislocation of the metatarsal bones of the big toes J C A Dowse J Roy

Army Med Corps Lond 1928 li 461 Preventing pressure in plaster casts on the foot FEBUERS Med Khn 1028 XXIV 1125

Orthopedics in General

Proceedings of the Northern Orthopedic As ociation at its ninth meeting in Gothenburg Sweden June 28 1927 P G K BENTZON Acta chirurg Scand 1028 lxiv 187 knems a new base for the con truction of jointless an paratus following Pirogoff and Chopart amputations GLASEWALD Arch f orthon u Unfall Chir 1028 xxvi

Advances in the technique of the manufacture of pros theses for the leg ZUR VERTH Zentralbl f Chir 1928 ly 2257

The development of light metal prosthe es in Germany R GOERLACH Zentralbl f Chir 1928 lv 2130 Shoes J BRUGMAN Northwest Med 1928 XXVII 577

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Blood Vessels

Venous pressure W S MIDDLETON Anes and Anal 1929 111 360 The sequele of phiebitis of the lower extremities E

I ractical points in the injection treatment of varico e teins L Isaak Muenchen med Wehn chr 1928 lexv

The injection of varicose veins with carbolic acid. I. P. Dillox But M J 1928 ii 103

The obliteration of varicose eins according to the method of I inser E Wollisters Theratia 1928 vii 3 Ob cryations and comments on obliterati e therapy for varicose veins A Stenerr Muenchen med Wehnschr 10 8 lxxv 120,

Collective inve tigation into the treatment of varico e ulceration A I Lere Brit M J 1928 B 1144

Tecimen ero ion of the internal jugular vein in scarlet lever J D Rolleston I roc Roy Soc Med Lond 19 8 XXII 135

Clinical studies on the biology of the penpheral arteries with particular reference to their sympatiletic innervation.

I Method of study of the peripheral arteries and their function. J lesen. Hip p Tid. 1029 km 329.

Clinical tudies on the biology of the peripheral arteries.

with particular reference to their sympathetic innervation II Studies on the peripheral arteries during di ea e I leses Hop Tid 1928 lxxi 445

Unilateral adrenalectomy in the treatment of artentis and of certain vascular syndromes I STRICKER I se se

méd Par 1928 xxxv1 1290 Clinical features of occlu ion of the coronary arteries

1 ALLAN Gla gow M I 10 8 cx 320 A ca e presenting multiple arterial thrombosis including

both coronaries Cla gow M J 1929 ex 351 Coronary occlusion in Buerger's di ea e (thrombo angulti obliteran) I \ Leus \ Am J M Sc 1028 clxxvi 80 [367]

Ligation of the terminal abdominal aorta an experi mental study B BRC MS & BLALOCK and G S J MIN sov Arch Surg 1928 xv11 /94

[367]

Extentive pulmonary embolism following fracture \ COTTO CORNALL and C W POWER But W J 1028 12 789 13671

Embolism of the arteries of the extremities M Perir PIERRE Schweiz med Wchnschr 1928 lun 700 Embolectomy on arteries of the extremities collective review and a report of twelve new cases M PETITPILERE Deutsche Ztschr f Chir 1928 cex 184 (367) Arteriovenous aneurism E I HOLMAN Surg Clin

Am 1928 viu 1413 Raynaud's disease A 4 Marriers Surg Clin N

402

Am 1928 viii 1460 Hamatoma of the thigh and pelvic regions F B St John Ann Surg 1928 Inxxvin 1120

Blood Transfusion

The colloidal state of cholesterin in the blood serum in vestigations upon the behavior of cholesterin on artificial colloid solutions S M Velschlosz Rev Soc argent de biol 1928 14, 400

The fate of acetylcholm in the blood C VIALE and M Soncini Rev Soc argent de biol. 1928 iv 300 I ostoperative changes in the blood and their importance in the development of thrombosis II HEUSSER Deutsche

Zische f Chie 1918 cen 112 Fundamental principles governing the clinical interpre tation of hematological diseases I W HELD and A A GOLDBLOOM Med Chn N Am 1028 xii 713 The loss of blood due to hamolysis M Loerer 1 DECOLRY and R GARCIN Presse med Par 1028 xxxvi

Some observations on the anamias R POLLACK Cali forma & West Med 1928 xtix, 408

Likene see and contrasts in the hemolytic anemias of childhood T B Cooley Am J Dis Child 1923 xxxv1

Apla tic anaemia I Witts Proc Ros Soc Med Lond 1928 xx11 153 Sickle-cell angenia II Tosepus Bull Johns Hopkins

Hosp Balt 1928 xlu 397 Perpicious anarma J R CHARLES Brit M J 1928

Pernicious anamia R Isaacs C C Sturcis and M SWITH J Am VI 458 1929 xc1 1687 Permetous arrema with free bydrochloric acid in the gastric contents S Davidson Brit M J 1928 it 21 3

Splenomegalic polycythæmia with high blood pressure T P WEEER F J BARRER F S ADAMS and H E C Dickson Brit, M J 1978 H 1129 Familial harmophilia M Det Set. Semana m'd 1978

XXXV 1085 Purpura U K Henren Lancet 1923 cenv 1327

Schoenlein Henoch's purpura Report of a rase with a review of the literature L Goldsten, Med Cha h Am 1928 xu 860 Purpura and platelets Some practical considerations

R McALPIN N York State J M 1928 ZTIM 1450 Two cases of agranulocytosis Tapia and Atovso Arch de med cirug y especial 1928, ix 479
The diagno is of leukæmia by examination of the unne

O Persa Fotha med 1928 is 358 Some observations on blood grouping I L Owre

Edinburgh VI J 1928 XXXV 222
Harmagglutination. II Harmosgglutination in the blood of bovines W M KARSHVER J Lab & Chn Med 1929 TIV 225

The question of the safety of citrated blood transfu wa Experimental studies on the toxicity of sodium citrate and its influence on the blood calcium and thrombocytes F ION MIRELICZ RADECKI and F AZESER Zischi I Geburtsh u Gypaek 1028 xcm 600 The fate and action of transfuled blood C Krest. Errel d innere Med 1918 zenv 302

Lymph Glands and Lymphatic Yessels

Re ults in Porto Rico of the Kondolcon operation for elephantiasis of the extremities G R Burke Surg Gynec & Obst to28 xlvn 841 Chylangioma and chyle fistulæ of the lower limbs and external genital organs C ANAPPER Arch I kim Chu 1928 cl 202

Some disorders of the lymph glands A E Gow Brit M I to28 11 072 Lymphadenopathy simulating Hodgkin's di tase Specet Arch Pediat 1928 alv 719

Generalized granulomatous lymphaden its associated with diffuse progressive fibrosis of the lungs C L Corner Arch Int Med 1928 xlu 822

Subacute inguinal lymphogranulomatosis J G Pauro Med Ibera 19 8 xn 291 349 3 6

End results in Hodgkin's disease and lymphocarcon W. B COLEY Ann Surg 1918 IXXXVIII 641

SURGICAL LECHNIOUI

Operative Surgery and Technique Postoperative Treatment

The necessity for a careful pre operative medical examination of surgical patients and the recognition of post operative circulatory disturbances B P SEWARD Inca and Anal 19 S th 356 Instruments useful in the non touch technique of ur

gery R L SITTEL Lancet 1928 c xv 290 Minor surgery in general practice W F Stermonder

Sederl Told chr v Geneesl. 018 p 417 The extraction of foreign bodies in daylight und r roent gen control L HELSER Am J Roentgenol 928 xx 571 Transport plasty H Marri Schweit med W his che

1928 Ivin 609 Skin plastics types and indications W R MECHTEN BERG Nebraska State M J 1928 Et 1 454

The after treatment of sk n grafts m children D List Proc Roy Soc Med Lond 1928 xx11 147 applied anatomy in the treatment of infections of the

hand H O LAIGHT Texas State J M 1918 ruy 518. The treatment of ganglion of the dorsum of the hand I Etsungar Win klin Wehnschr 1928 zh 740

Perservation of the parathyroids and for rent serves by a modified thyroidectomy. W. I TERRY H. H. SERLIS, and R. J. VILLIVER. Surg. Clin. N. Am, 1938 von 1931. Riceking Head & areas in combating pain due to discuss of the internal or gans. J. Halbar. Zentraibl. f. Gynet. 1938. B. 21-28.

1028 P 2138 The benefits of asulm in the surgery of diabetics 1 G ORR J Kansas State VI Soc 918 xxx 410
The cause and pre ention of postoperati e gas pain.

S P CUNNINGHAM Anes and Anal 1928 vil 3 6 The dangers of infusions of normosal and salt solutions. W BOERME Deutsche med Wehnschr 1928 by of

The dangers of salt and normosal infusion A Brck Deuts he med Wehnschr 1928 liv 1247

Postoperative vomiting its control by interstitial injections MAR YOUNG Canadian MASS J 1928 xix

Po toperative embolism O Logwe Muenchen med lichnicht 1928 Exv 1163 Combating and preventing postoperative pneumonia by means of intravenous injections of strontium Rabe

Muenchen med Wchnschr 1928 Ixxv 1077
Orygen in the treatment of postoperative broncho pneumonia M M Bryces F 5 Juno 1 B Monre and R M Mythera Ach Surr 2018 211 1273

pneumonia M. M. BENCER F. S. JLOD A. B. MOORE and R. M. Wilder Rich Surg. 1928. xvii. 1047. 1373. Death from cylotropin. I. Voor. Zentralbl. f. Chir 19.8 lv. 20.0

Antiseptic Surgery Treatment of Wounds and Infections

The treatment of a ute progres we phlegmonous processes of the extremities G 1 Regression Zentrali I f

Chu 1028 Iv 1936

The management of inflammations of the sebaceous glands W Golloschmitt Wien klin Wchnschr 1028 ali 05

Continuous 1 th treatment I IRITSCHT Schweiz med Wehnschr 1028 him 611

The bacters stall properties of the oblition S T 2 (degare freylesorenoles 1 coo) A W ALPA and I S Water Arch Surg. 1928 vol. 84. Expenences 1928 vol. 84. In minor su gery P RUDOMANN Muenchen med Wehnschr. 1928 level 1920 vol. 84. Expenences 1928 level 1920 vol. 192

Ba tenophage in suppurative conditions T B Rick J Indiana State M Ass 1928 xvi 509 (373) Strepto occal infe tions and preparations of ergot P

Larrier Zentralbl f (ynack 1928 hi 1953 The preparation and use of phenolized rabies va (inc

L.T. H. TSFN and C. C. Chi. Nat. M. J. China. 1928.

Death following the administration of tetanu antitovin hobilizer Zentralbl f Chir 1928 by 2266 Four cases of tetanus cured by intensive erum theraty

Chrain and Ia/cu Rev stint med 1928 vom 67
The value and a tion of a zin sulphate dressin, in the tax enative treatment of surgual tuber ulosis M
light Orvou held 1928 levin 31

The roenigen treatment of bone joint and glan I tuler culosis in childhood P Meszoely Orvosi hetil 1928 ltm 42

An.esthesia

Ameans of intercepting explosions in anæsthetics \ I H x \ in and C \ Garpenier Anes and Anal 1928

And the in from the standpoint of the bio hemist A E OSTERBERG Anes and Anal 1928 vii 366 Reflections of an anosthetist W B Howell Canadian

MAS J 1928 AIX 649

Main none of an anasthetist W B Howell Canadian

Mars anasthesia C W Hoerlich Anes and Anal

Preliminary med cation for anaethesia Brit M J

Clin al studies and chemi al analyses of retreathed mutatees F T ROMBERGER Anes and Anal 19 8 vii

The intra-operative and postoperative admini tration of tarbon dioxide a valuable and in inhalation annesthesia L. Fischer. Lectralbl I Gynack. 1928 lii. 010

The value of introus-oude anasthesia in surgery A comparative study of anaschesia for the purpose of reinstating and promulgating the use of nitrous oude oxygen anasthesia in Germany II Schmidt Arch f khin Chri 1928 (c) 110.

Io al and regional and thesia Brit M J 1028 ii 1002 Lo al and regional and thesia Brit M J 1028 ii Lo al and regional and thesia Brit M J 1028 ii

South M & S 1928 xc 814

The value of nitrous ovi le in reinforcing lo al anæsthesia

IN FIRST RER Med klin 1928 xtiv 1933

Nerve blo k anasthesia of the cervical abdominal and sa ral regions. If W. Huyding. Ages and Anal. 1928

VII 331
Safety factors in spinal anasthesia O I Schattes

BURG California & West Med 1928 XXIV 397

Terfecting Spinal anaesthesia H HILAROWITZ and M
SZAINA Zentralbi f Liur 1923 by 1939

Causes for failure of planchnic samesthesia (Braun)

J Pourssanow Arch f klin Chir 1028 cl 57;
Can lumbar anæsthesia with large doses of tutocain be

recommen je l? I von Kovran Zentralbl f Gynaek 1928 lu 2111 Rectal anæsthesia with avertin (F 10) k Grewing Muenchen me l Wehn chr 1928 lvs 1166

Rectal anasthesia with a vertin II I veretion and complications W STRYUB Muenchen med Wehnschr 1928 Exxv r 9
Sommifen anæsthesia and a vertin rectal anæsthesia

Sommien anæsthesia and avertin rectal arresthesia
M LUFINGER Schmerz 1928 1 294
Some experiences with perno ton in the University

Clinic at Cologne J MULLIER Zentralbl f Chir 1928 lv 1944 Faperiences with intravenous anaesthesia with periok ton H Hitlerspand Muenchen med Wchnachr 1928

Nevt 10 8
Avertin and sthesia in the clinic and in general practice
B EIDERING and M SARUFL Muen hen med Wehnschr

1928 kxv 1414
The influence of carbon dioxide inhalation on avertin anasthesia II Ploercken /entralbi f Chir 1928 lv

Vertin for complete anisotheria B Martin Deutsche med Wehnschr 1928 by 1154

Surgical Instruments and Apparatus

A new instrument for introducing a catheter into the custa him tube L K PITMAN Arch Otolaryngol

1928 viii 29
Endonasal surgery vith the ail of a new instrument
a simplified technique \ Wachsberger Arch Oto

laryngol 1928 vin 212

Exposure and illumination of the pharynx and larynx

1) the general practitioner a new laryngoscope designed
to simplify the technique P Liago Arch Otolaryngol

1928 VII 16 A tonsil ecraseur T B LAYTON I ancet 1928 CCXV

Tonsil holding vulsellum forcens C A S Ringart

Lancet 9.8 CCV 1137
A new lancet for opening a pentonsillar above 5 A A
Miller Lancet 1028 CCV 1344
Forems to simplify Ramstella operation C. Mo.

Forceps to simplify Ramstedt's operation G Mc Lappen Lancet 1928 ccxv 1136 A new apparatus for elevating the patient e pecially

for gall bladder operations. H. Sinox. Zentralbl. f. Chir. 1928. lv. 1940. A imple instrument for measurement of the pelvis.

I Wolfr Zentralbl f Gynaek 1928 lu 2155

Exten we pulmonary emi olism following fracture. V COTTON CORNWALL and C W PONDER Brit M J 1928

ш 78о [367] Embolism of the arteries of the extremities M Perri PIERRE Schweiz med Wchrische 1928 han 700

Lmbolectomy on arteries of the extremities collective review and a report of twelve new cases M PETITPILERE Deutsche 7tschr f Chir 1928 ccv 184 Arteriovenous aneurism E F Holman Surg Clin

\ Am 1928 VIII 1413 Raynaud's disea e A A MATTHEMS Surg Clin \

Am 1928 viii 1469 Hæmatoma of the thigh and pelvic regions T B St JOHN Ann Surg 1928 IXXXVIII 11 0

Blond Transfusion

The colloidal state of cholesterin in the blood serum in vestigations upon the behavior of cholesterin on artificial colloid solutions S M Vauscinosz Rev 5oc argent de

biol 1018 1. 400
The fate of acetylcholm in the blood C VILLE and J M SONGING Rev Soc argent de biol 1918 IV 300
Postoperative changes in the blood and their importance in the development of thrombosis H Hatssen Deutsche

Atschr f Chir 1928 ccv 132

Executed the property of the characteristic process of the characteristic principles governing the characteristic principles governing the characteristic principles and A formation Med Clin V Am 1918 xu 713 [369]

The loss of blood due to hamolysis M LOPPER] DECOURT and R GARCIN Presse med Par 1028 xxxvi

Some observations on the anamias R POLLACK Cali forms & West Med 1948 xxix 403 Likene se and contrasts in the hamolytic anamias of childhood T B Cooley Am J Dis Child 1928 xxxx1

Aplastic animia L Wirrs Proc Roy Soc Vied Lord 1928 XXII 153 Sickle cell anzenia H Josephs Bull Johns Hopkins

Hop Balt 1928 al 1 39 Perpicious anarmia J R CHARLES Brit M J 1928

11 7 5 2 5 Pernicious anatmia R Isaacs C C Stungis and M

SMITH J Am M Ass 1938 vci 1687 Permicious anatmia with free hydrochloric ac d in the gastric contents & Davidson Brit M | 1928 ii 1123

Splenomegalic polycythemia with bigh blood pressure FI WEBER FJ BARKER FS ADAMS and W E.C. DICKSON Brit M J 1928 H 1129 Familial hemophilia M DEL SEE Semana med 1928

XXXV 108c Purpura W K HUNTER Lancet to 3 ctay 1311 Schoenlein Henoch's purpura. Report of a cale with a

review of the literature L GOLDSTEIN Med. Clin A Am 1028 xu 860 Purpura and platelets Some practical considerations K R McALPIN Y York State | 11 1928 xxim 14 0 Two ca es of agranulocyto is Tapia and Alovso

Arch de med cirug y especial. 1928, 12 429
The diagnosis of leukarma by examination of the lines O PENNA Folha med 1928 ix 358

Some observations on blood grouping J L Own Edinburgh M J 1928 EXXV 222

Hæmoagglutination H Hæmoagglutination in the blood of bovines W M KARSHNER J Lab & Chin Med

1928 XIV 225 The question of the safety of citrated blood transly on Experimental studies on the toxicity of sodium citrate and

its influence on the blood calcium and thrombocytes. F VON MIRULICZ RADECKI and E KEESER Zisch f Geburtsh u Gynaek 1928 zem 690 The fate and action of transfu ed blood C Kurni. Errel d innere Med 1918 xxxiv 301

Lymph Glands and Lymphatic Vessels Re ults in Porto Rico of the Kondolfon operation for

elephantiasis of the extremities G R BURSE " TE Gynec & Obst 1928 xhu 841 Chylangioma and chyle fistula of the lower limbs and external genital organs C KNAPPER Arch I kim. Chr. 1928 cl 202

Some disorders of the lymph glands A E Gow But J 1028 H 072

Lymphadenopathy simulating Hodgkin's disease A E-STELEL Arch Pediat 1928 xlv 700 Generalized granulomatous lymphadenitis associated with diffuse progressive abrosts of the lungs C L Covon

Arch Int Med 1928 x n 822 Subacute inguinal lymphographics atoms J G PRIETO

Med Ibera 1928 xii 291 340 376 End results in Hod kin's disease and lymphotarioms W B Corey Ann Surg 1928 Exervise 641

SURGICAL TI CHNIOUF

Operative Surgery and Technique Postoperative Treatment

The necessity for a careful pre operative medical ex amination of surgical patients and the recognition of post operative circulatory disturbances B P SEWARD Anes and \nal 1028 vn 156

In truments useful in the nor touch technique of sur gery R I Spirrel lancet 1018 ccay 1290

Minor surgery in general practice W F Surriso or Nederl Tijd chr v Geneese 1028 P 43 The extra tion of for ign bod es in dayl ght under cent gen control C Hetser Am J Roentgenol 1928 xx

Transport plasty H Marri 5 hweiz med Wehns hr 1028 Ivi 660

Skin plastics types and indication W R MECHTEN BERG Nebraska State M J 1928 viii 454

The after treatment of skin grafts in children D Leve I roc Roy Sox Med Lond 1928 IN 147

see roy Do. Aled Lond 1928 XXII 147 Applied anatomy in the treatment of infections of the hand If O KNICHT Texas State J M 1928 XXIV 257 The treatment of gauglion of the doesum of the hand I Eleganza Wien kim Wehnschr 1928 XX 749 1 Company of the Wehnschr 1928 XX 749 I reservation of the parathyroids and recurrent a net by a modified thyroidectomy W I TERST H IL SEARS

and P J MILLEYER Surg Cln N Am 19 8 sm 1703 Blocking Head s areas in combating pain due to diseases of the internal organs | HALBAN Zentralbl. | Gypath 1928 p 2135

The benefits of insulin in the surgery of diabetics T C ORR J Kansas State M Soc 1928 xxx 410 The cau e and prevention of postoperative gas pass

5 P CUNINGRAM Anes and Anal 1928 vil 3 6 The dan ers of infusion of normosal and salt solutions W Boenne Deutsche med Wehnschr 1918 ht 108

The dangers of salt and normosal infusion A BECK Deuts he med Wehnschr 1928 hv 1247 Postoperative vomiting its control by interstitual injections WAR YOUNG Canadian M Ass I 1928 xiv

Postoperative embolism O Lorwe Muenchen med Nchaschr 1928 lxxv 1163

Combating and preventing postoperative pneumonia by means of intravenous inje tions of strontium RABF

Muenchen med Wehnschr 19 8 lvv 1077 Ovygen in the treatment of po toperative broncho pneumonia M W BINGER E S JUDD A B MOORE and R M Wildes Arch Surg 1928 von 1947 [373]

Death from cylotropin I Vocr Zentralbl f Chir 1029 ly 20 0

Antiseptic Surgery Treatment of Wounds and Infections

The treatment of a ute progressive phlegmonous proesses of the extremities G J BREITMANN Zentralbl f Chir 1928 lv 1926

The management of inflammations of the sebaceous glands W Coldschaffer Wien klin Wehnschr 1928

Continuous bath treatment I FRITSCHE Sch veiz med Mchnschr 1928 Ivm 611

(liquor hexylresorcinolis 1 1000) A W ALLEN and I S The ba tencidal properties of the solution S T WRIGHT Arch Surg 1928 XVII 934 [373] Expenences with 10d dermasan in minor surgery

E RUBEMAN Muenchen med Wehnschr 1928 lvvv 1030 Ba terrophage in suppurative conditions T B Rici J Indiana State M Ass 1928 XXI 509 373

Streptococcal infe tions and preparations of ergot P Carrier Zentralbl f Gynaek 1928 bi 1953

The preparation and use of phenolized rabies vaccine I T Il Tsen and C C CHI Nat M J China 1928 XIV 402 Death following the admini tration of tetanus antitovin

KOEHLER Zentralbl f Chir 1928 lv 2266 Four cases of tetanus cured by intensive erum therapy

CHIPAIL and IANCO Rev stunt med 1918 TVIII 6, The value and a tion of a zinc sulphate dressing in the conservative treatment of surgical tuber ulosis Henry Orvosi hetil 1928 Ixxii 731

The roentgen treatment of bone joint and gland tuber culosis in childhood P MESZOELY Orvosi hetil 1928 Ittu 742

Anæsthesia

A means of intercepting explosions in anæsthetics A P HORNOR and C \ GARDENIER Anes and Anal |373|

and thesia from the standpoint of the bio hemist A F OSTERBERG Ages and Anal 1928 vil 366 Reflections of an anaesthetist W B Howell Canadian

M Ats J 1928 MX 649

Nurse annesthesia C W Hoeffich Anes and Anat

Preliminary medication for aniesthesia Brit M J

1919, 11 1036 Clini al studies and chemical analyses of rebreathed mustures F T ROMBERGER Anes and Anal 1928 vii

The intra operative and postoperative administration of carbon diovide a valuable aid in inhalation anæsthesia I. Fischer Zentralbl f Gynaek 1928 in 2010

The value of nitrous oxide anasthesia in surgery comparative study of anasthesia for the purpose of reinstating and promulgating the use of nitrous oxide oxygen anæsthesia in Germany H Schuipt Arch f klin Chir 1028 ch 110

Lo al and regional anaisthe ia Brit M J 1928 ii I o al anæsthesia as an office aid R L RATFORD

South M & 5 1928 xc 814 The value of nitrous oxide in reinforcing lo al anæsthesia

H FINSTFRER Med Khn 1928 XXIV 1033 Nerve blo L anjesthesia of the cervical abdominal and sacral regions H W HUNDING Anes and Anal 1028

VII 33T Safety factors in spinal anaesthesia O L SCILLTEN

BURG Lahforma & West Med 1928 TVIV 307 Perfecting pinal anæsthesia II Hilanowitz and M SZAJNA Zentralbi f Chir 1929 lv 1930

Causes for failure of splanchnic anæsthesia (Braun) I Polissapowa Arch f khn Chir 1928 cl 5, Can lumbar anæsthesia with large doses of tutocain be

recommended? I VON KONRAD Zentralbl f Gypaek 1928 ln 2111 Rectal anasthesia with avertin (I 107) K Grewing Muenchen med Wehnschr 1028 Jvvv 1166

I ectal anæsthesia with avertin II Excretion and com plications W STRALB Muenchen med Wchnschr 1928 XXV 12 Q

Sommifen anasthesia and avertin rectal anasthesia M ELFINGER Schmerz 1929 1 294 Some experiences with perno ton in the University

Chnic at Cologne J MUELLER Zentralb! f Chir 1028 F toeriences with intravenous anasthesia with pernok ton H HILLEBRAND Muenchen med Wehnschr 1928

LXXV 10,8 Avertin anæsthesia in the clinic and in general practice B FLDFRING and M SAMUFL Muenchen med Wchnschr

1928 lxxx 1414 The influence of carbon dioxide inhalation on avertin anæsthesia H FLOERCKEN Zentralbl f Chir 1028 ly

Vertin for complete aniesthesia B Martin Deutsche med Wehnschr 1028 hv 1154

Surgical Instruments and Apparatus

A new instrument for introducing a catheter into the eusta hian tube L K I ITMAN Arch Otolaryngol 1928 111 /29

Indonasal surgery with the aid of a new instrument a simplified technique A WACHSBERGER Arch Otolaryngol 1028 van 712

byposure and illumination of the pharyny and laryny by the general pra titioner a new laryngos ope designed to simplify the technique P FLAGG Arch Otolaryngol

1028 VIII 716 A tonsil ecraseur T B LAYTON Lancet 1029 ccxv

Tonsil holding vulsellum forceps C A S Ripour

I ancet 1928 ccvv 1136 A new lancet for opening a peritonsillar abscess A A MILLER Lancet 1918 ccxv 1344

Forceps to simplify Ramstedt's operation G Mc

FADDEN Lancet 1925 CCXV 1136 A new apparatus for elevating the patient e pecially for gall bladder operations H Simon Zentralbl f Chir

1928 ly 1940 simple instrument for measurement of the pelvis Wolfe Zentralbl f Gynaek 1928 ln 2155

A self retaining vaginal speculum of small ize GUTTMINN Deutsche med Wehnschr 1928 hv 12,6 An improved penis clamp H Schoenrich South 11 J 1928 XVI 1030

A new instrument for bone suture F Schene Zen traibl f chir 1928 ly 21%

Leverage for eps for fra tures of the leg E. P. Hetter I Missouri State W Ass 1918 IT 5 5 A pneumatic bone operating et 'II H Ocura Lancet 1928 cert 1177

Plaster-of Paris re inforcements M II Haz your I Am M Ass 1928 10: 1802

PHYSICOCHEMICAL METHODS IN SURGERY

Roentgenology

The rôle of radiology M R J Haves Insh J M Sc 1028 6s 72

1 protected survel chair for roentgenoscopy S L WARREN Am J Roentgenol 1928 xx 570 Roentgenograms of the sphenoid and ethmoid sinuses

the of lique method A I Overguan Arch Otolaryn gol toza viu 663

The technique of gall bladder examinations G U The roentgenological diagnosis of gall bladder disease

J PRILIPHANY Med J & Rec 1918 evenin 588
Ostenias fibro a and ostenias deformans. If R SEAR

Med J Australia 1928 H 516 (375) The mechanical explanation of the biological action of radiation 5 Brown Radiology 1918 xt 466 The chemical and biological changes induced by the Yrays in body tissues M T BURRENS L H TORSTAD and I C PRIST Radiology 1928 at 3 o

The effect of \ rays on the heart function of the from T LAMAMOTO Jap J Obst & Gynec 1928 x1 290 The condenser dosimeter and its u e in measuring radia tion over a wide range of wave lengths. O GLASSER

U V I ORTHINN and V B SEITZ Am f Roentkenol 1928 Ex 505 The action of the roentgen rays on the blood vessels

O David Zentralbl f Haut u Ges hle htskrankh 1027 XXV 31 Roentgen and radium treatment of verruca pantaris

L R TAU is and H E MILLER Am I Roent enol 1018 XX 514 The countgen ray in neurocirculatory diseases H B

PRILIPS Med J & Pec 1928 exvin 550 62 Padiology in neoplastic diseases If SHARBERG hadiol Rev & Chicago Ved Rec 1028 J 453

The a tion of radiation on the blood supply of tamors Morray Lan et 10 8 ccrs 066 The roentgen ray treatment of malignant bone tumors with report of cases C I PLILEDGE New Orleans M

& S J 19 8 1xx11 40h I sperimental researches of the general action of the roenigen rays on my vosarcoma of fo vis T Y AMAMOTO

Jap J Obst & Gynec 1918 tt 271

Radium

Therapeut: inethods and results at Radiumbemmet C FORSELL Brit J Radiol 19 8 1 174 [3 5] Surface applications of radium G W GRLER Rad 1

ogy 19 8 x1 474 A sumple radium carner and filter givin an easier so

proach to neoplasms of difficult access. S & V ARREN Am J Roentgenol 10 8 tx 563 The direct and indire t a tion of rad ation on carret tis ues A Lacassague Radiology 1928 ti 303 [F4] The progress of deep radium therapy in the treatment

of cancer L MAYER and M CHEVAL Bruvelles-mid rar's vm thre Radium in cancer of the cervix. General remarks with report of ome cases | Cotten New Orleans V & 5] 1929 PATRI 401

Radiation in samomata L FORTIER and T T GATELY New Orleans M & S J 19 3 lexts 412

Miscellaneous

Physiotherapy F I Martin and 4 K Harenar J Indiana State M Ass 1028 xtl 513 The phy i al treatment of arthritis H M Hapane Med J & Rec 1928 certi 1 630

Physical measures as an adjunct to surgery Il MARRY I Med Soc N Jersey 1929 xxv 6 1

Physical therapy aids in fracture and orthoped, cares V G Daran J Med Soc N Jersey 19 8 erv 6-6 Medical irradiation roent en diagnosis roenten and radium treatmen and behorberapy Vol in H H PELDER H HOLTHU EN O JUENGLING and H MARTE

19 5 Leipzig Thieme Biochemical re earth of irrad ation upon curative proce s if tumors S Vist HARA & Impryta and T Tacm

BANA Jap J Obst & Greec 1918 xt "69 Handt ook of uradiation biology paths my and the app 101 f P Lastets 1917 Manch Bergman Utra tolet 1 ht a d skin cancer G M Fronts Lan et 10 9 ccsv 10 0

Photosensiti ation and ph totherapy A Pica Mel. Thera 19 9 xit 364

MISCELLANEOUS

Clinical Entitles-General Physiological Conditions

Handbook of the anatomy of the child PETER WETZEL and Hernetch 1928 Munich Bergmann
Handbook of normal and pathological physiology with
consideration of experimental physiology with Pt r Blood A BETHE G vo BERGHAN G EMBDEN and A Eccivoler 2028 Berlin Sprin et Anaphylactic studies in man and animals. Studies in

protein metabolism 1 anaphylaus in rabbits and d & A SCHITTENHELU and W LEHLEDT Zischt f d gra esper Med 19 7 lvs 511 Death fron burning & Rient Ja Ze traib! / Hast

u Ges ble ht.krankh o xxv 61 The influence of operative procedures on the a tady of the heart II Riessinger Deutsche Zische f Chi

1018 CCX 410 Shock from lightning and electric current (case reports) L BANERJEE Calcutta V J 029 Ftm 361

Further observations on the prevention of shock with insulin gluco e C M ANDERSON Anes and Anal 1028 VII 246

Basal metabolism a clinical study J F CHAMBERS Med J Australia 1928 11 6 2
Oxidation in health and disease J A Ora Anes and

Anal 1928 vii 385 Myxordema C M Grigsby Texas State J M 1928 XXIV 562

Irradiated ergosterol in the treatment of tetany M GLEICH and S GOODMAN N York State I M 1928 פנד מונידג

Blood and autonomic regulation T Hori Ergebn d inn Med u Kinderh 1928 xxxiii 195

Studies in the cal jum and pho phorus content of the blood serum of infants O Ularer F Hillenberg and

P SCHIMMELFEENG Arch f kinderh 192, lyxxi 179
Cakum deposits in the tissues following frost bite DOERFFEL Zentralbl f Haut u Geschlechtskrankh 1027 XXV 62

The diabetic as a surgical ri k J G SHERRILL Anes and Anal 10 8 vii 182 Abdominal symptoms in diabetic coma E WIECH

MANY Muenchen med Wchnschr 19 8 lxxv 1160 Juvenile gangrene W MARTIN and B R SHORE Ann Surg 1928 IXXX 111 725
Renald arfism (E Kellett Proc Ro) Soc Med 13771

Lond 1928 xx11 142 latrapleural pressures in massive collapse of the lung With report of cases C C HABLISTON Am J M Sc

1028 clarve 830 Alkalosis E E Larson and D S Pulgord California & West Med 1028 XXIX 373 Acidosis with a consideration of glucose and gluco e

insulin therapy O B LEE Anes and Anal 1928 vii A simple achromic nævus of blotchy distribution on the front of the chest F P WYBER Proc Roy Soc Med

Lond 1928 xx11 8q Prodermatitis vegetans C B Downing Proc Roy

Soc Med Lond 1928 xtn 93 The serval relationships of diseases H WEND? Arch Frauenh u konstitutionsforsch 1928 xiv 207 A clinical and bio hemical study of allergy I and II

H W BURBER and G H ORIEL Lancet 1918 CCTV 1000 1061 [377] Relation between trauma and tuberculous from the

physician's point of view N TATTERSALL Brit M J 1028 11 1098 Traura and tuberculosis from the point of view of

accident insurance O May Brit M J 1928 ii 090 Results and value of dietetic treatment of tuberculosis F SAUERBRUCH and A HERRMAN SPORFER Muenchen med Wehns hr 1928 kxv 35 Lucs and trauma F ZIMMERMANN Monatsschr f

Unfallheilk 1928 xxxv 218 A report on the investigation into the etiology and pre

vention of naga sore in Assam D N Roy Indian M Gaz 1918 lxui 673 The relat on between osteoporosis and artenosclerotic

changes of the nutrient vessels of the upper end of the femur W HALLERMANN Arch f klin Chir 1928 cl

Agranulocytic angina H W Dasse J \m M \ss 1929 XCI 1718 Agranulocytic angina with thrombopsenic purpura

M CALL B H GRAY and I M Hopers Am J Roent genol 1928 Ex 550

Fibroma of the shoulder J H BALDWIN Ann Surg 1928 LYXXVIII 1096 Tumor of right side of neck teratoma (?) E PRIT CHARD Proc Roy Soc Med I and 1028 XXII 130

Epithelioma, erythema induratum (?) and ultraviolet radiation J G Tourinson Brit M J 1928 ii 1171 The problem of the malignant tumor L HEIDENHAIN

Muenchen med Wchnschr 1928 luxy 1343 General education for cancer control II P SMITH

Pennsylvania M I 1928 XXXII 140 The cancer situation in the State of New York 11

The cancer situation in Pennsylvania T B APPEL G R I ARNER and H B Woon Pennsylvania M I

10 8 YXXII 134 Cancer in Steiermark H HABERER Wien klin

Wehnschr 1928 vli 800 The relation of the interni t and the practitioner to the cancer problem D P BARR South M J 1928 xx1

The places to start cancer investigation S P Rer MANN Pennsylvania M J 1928 TYRII 142

A plea for the early recognition of cancer E I ILL Med Soc \ Tersey 1928 XXV 761 The cancer cell in the practice of medicine W C

MACCARTY Radiology 1928 to 1 9 Cancer treated in general practice by colloidal lead TALBOT Brit M J 1928 ii 1934 Cancer biology and radiation F C WOOD Radiology

1928 11 388 [378] Contributions on carcinoma II The structure of the serum in women with carcinoma. The sedimentation rate surface tension vi cosity and o motic pressure. II CHITHMANN and H. FRUEHAUP, Arch f. Gynaek, 1029

CXXXIV 425 Raynaud's disease associated with cancer of the stom ach I I BENNETT and L P POLLTON Am I Med

10 8 clxxvi 654 Hypercholesterolæmia adenocarcinoma of the papilla

of Vater Autopsy report from the laboratory of the Philadelphia General Hospital L N Boston and I I JODZIS Med J & Rec. 1928 CXXVIII 561
Sarcomatosis cutis H C SEMON Proc. Roy Soc.

Med Lond 1928 xxii 80 Multiple cutaneous sarcomato es Romego Arch de med cirig ye pecial 1028 ix 401

Hypervitaminosis D and tumors diffuse adenomata with initial mal grant degeneration of the stomach of the rabbit produced by an excess of irradiated ergo e terine I A (OLLAZO B VARFLA and I RUBION Arch argent de enferm d apar dhest 10 % 1

The simultaneous presence of recent foci of tuberculosis and di seminated carcinoma metastases F Sturm Deutsche Ztschr f Chir 10 5 cci 406

General Bacterial Protozoan and Parasitic Infections

A case of anaerobic infection folloring an injection of adrenalin and digisolvin P KUEHNEL Hosp Tide

1928 Levi 663 A unque finding in the cerebrospinal fluid in tetanus S STEYER Deutsche med Wehnschr 1929 by 1289

Distribution of anthrax pustules on the human skin P Graf Muenchen med Webnschr 1928 lxxv 1928 Bacillus abortus infection in man T Thompson

Lancet 1928 rexv 1335 Infection with brucella abortus H HARRISON and G

S Wilson Lancet 1928 CCXV 1338

The etiology of erysipela K E BIRKHALG Ann Int. Med 1923 11 524 The serum treatment of eryspelas E B TAUBER I

Med Cincinnati 1928 ix 471 The treatment of leprosy L E TIERINI Semana

méd 1028 xxxv 1122

Bacillus proteus infections J I TAYLOR I Path & Bacteriol 1928 xxxi 807 [379] Pathology of tuberculosis II G JETER J Oklahoma

State M Ass 1928 xxi 345 I rouno is of tuberculo is C F Bares I Oklahoma State VI \ss 1928 xx1 350 Studies in the treatment of tuberculosis. If I orwey

STAEDT Lxtrapulmonale Tuberkul (Sonderbeil z Med Khn) 1029 11 144 Tularamia E FRANCIS J Am M Ass 1928 xc1

Tularamia report of a ca e G Hastings and P Will son South M J 1928 xv1 1035 Variants of harmolytic strepto occu their relation to type spe the substance virulence and toxin

Topp and R C LANCEFFILD J Faper Med 1928 vivu 751 Interence difference between matt hamolytic streptococci and their glo sy variants R C Lancerteen and

W Topn J Exper Mel 1928 zhun 62 I ca e of severe strepto occamia cured by small blood

transfusions C Mas ras I de m d de Pordeaux 1028 A ca e of generalized meningococcus infection A W

CARDINER BUT M J 1929 H 11 6 Experimental actinomyco is B Barour Arch ital di chir 1928 xx 529 Blastomy cosis I D Michelson I Am M As

1028 VC1 1871 I rosio interdigitalis blastomycetica G I Koptreg Cal forma & West Med 1929 xxix 409 Studies on rabies D JONNESCO Pres e méd Par 1028 XXXV: 1258

Ductless Glands

Acromegaly in a woman C Worster Drotcht Froc Roy Soc Ved Lond 1928 xtu 150 Thymi hyperplasa diagnosis and treatment C M White Texas State J M 1928 xtv 559

Tumor of the carotid body II L WHALF I roc Roy

Soc Med Lond, 1928 xxii 163
The function of the g nads in the light of parabiosis experiments II Zicherk Krankbeitsforschung 1928 vi 174
The inner secretory influence of the male gonads on

impregnation and pregnancy The question of the antagonism of the gonad W Reitrach Med klin 1928 XXIV 728

Surgical Pathology and Diagnosis

Axial rotation purposeful and pathological C H FAGGE Lan et 1928 cerv 1167 The blood sedimentation test as an aid to diagnosis and prognosis 5 W Moreland Anes and Anal 1929 vii

391 The clinical value of the sedimentation test particularly in urological surgery T to Hoth and F & Mares Ztschr f urol Chur 1928 xxv 77

The harmoxla tic crais as a ensite endication of syphilis S Laczka Orvosképzés 1928 xvaii Sonder Ar The chemical evamination of the faces J II Ryres.

Cultural diagnosis of tuberculosis A Distra Anh f klin Chir 1928 cl, 646
Dark field demonstration of spirochæta pallida II.

GOODMAN Med Times 1918 lv1 120

ancet 1928 ccvs 1323

Experimental Surgery

Injuries from colored pencils \ Getzoev \m ebass gaz ro28 111 200 Experimental free fat transplantat on hi tol gotal find angs A Hillse Beilt z path Anat u z allg Path

1925 lxx1x 592 The effect of ether an estheria and shock on the calcium of the blood W C EMERSON J Lab & Clin Med., 1928 NV 195

The action of local anaesthesia on the colated blood vessels of the frog E RENTZ Arch f exper Path a Pharmakol 1928 exxx 357

An experimental study of certain visceral sensation E P POULTON Lancet 1928 ccay 1223

Studies in experimental extracorporeal thromboss VII Fatracorporeal thrombosis in experimental obstruc tive jaundice and after the intravenous administration of bile acids W R Johnson T Shinnoya and L G ROWNTREE I Exper Med 1028 at 31, 871

Experimental study of bowel obstruction in the dog The duodenal secretions P SEULBERGER K BRAYDES and A BEYKIRCH Beitr z klin Chir 1928 culv 135 Methods for experimentation on the animal uters G & TSCHEREPACHIN Arch f Gynaek 19 8 caust

Method of studying the pharmacology of the utens Schurbel and W. Teschendore Arch f expe-Lath u Pharmakol 1928 exxvnt 82

Hospitals Medical Education and History

Malpractice-the legal a pect of the surgeon M D DELANEY Internat J Med & Surg 19 8 1h 600 Generalized measures against carelessness and gred in the manufacture of surgical instruments O LOENE Zentralbl f Chir 1018 1 1080

What happens to pus-contaminated operative lines? PLENZ Zischr f d ges Krankenhauswesen 1978 xxn 43 I

Differentiating between worthy poor and dispensity shoppers M LINCOLN Mod Ho p 1918 IND 0 How social service supplements treatment 3! T MACEACHERN Mod Hosp 1928 TXX 89 The importance of moving pictures in medicine par

t cularly in obstetrics and gynecology lov Mixblid RADECKI Ztschr f Geburtsh u Gynaek 19 8 grul 528 Med cal journalism and scientific progress 512 S.
SPRIGGE J Am. M Ass 1928 201 1990 21

John Hunter the founder of scientific surgery E L Grickeest Surg Clin N Am 1928 vin 1273 Dr James Craik a revolutionary surgeon general, Mil.

Surgeon 1928 Lun 865 The history of spectacles E T Surre Med J Act

traha 1928 11 578

International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

EDITORS

FRANKLIN H MARTIN Chicaço SIR BERKELEY MOYNIHAN KCMG, CB, Leeds PAUL LECENE, Paris

> SUMNER L KOCH, Abstract Editor MICHAEL L MASON Assistant Editor

DEPARTMENT EDITORS

EUGENE H POOL General Surgery
FRANK W LYNCH Gynecology
JOHNO POLAN Obstetnes
CHARLES H FRAZIER Neurological Surgery
F N G STARR Abdominal Surgery
CARL A HEDBLOW Chest Surgery

LOUIS E SCHMIDT Genuto-Urinary Surgery
PHILIP LEWIN Orthopedic Surgery
ADOLPH HARTUNG Roenigenology
HAROLD 1 LILLIE Surgery of the Ear
L W DEAN Surgery of the Nose and Throat
ROBERT H IVY Playse and Oral Surgery

CONTENTS

I	Index of Abstracts of Current Literature	աւտ
11	Authors	14
111	Editor s Comment	×
17	Landmarks in Surgical Progress	407 410
v	Abstracts of Current Literature	411 482
VI	Bibliography of Current Literature	483 508

Ed torial Communications Should Be Sent to Franklin H Martin Editor 54 East Erie St. Chicago Ed torial and Business Officest 54 East Erie St. Chicago Illinois U.S.A.

Publishers for Great Britain Bailliere Tindall & Cox 8 Henrietta St Covent Garden London W C



CONTENTS-MAY, 1929

LANDMARKS IN SURGICAL PROGRESS

LATERAL ANASTOMOSIS OF THE INTESTINE-PHILIP SYNG PHYSICK Irving S Cutter M S Sc D Chicago 407

ABSTRACTS OF C	UR	RENT LITERATURE	
SURGERY OF THE HEAD AND NECK Eye Gat, W D Ocular Symptomatology in Dengue Boxed on an Analysis of 1 241 Cases Wrevours F W and Others Visual Acusty with in the tree Centralis and Its Relation to Eye PRESSON SEA OF INSTON PRESSON SEA OF INSTON Treatment by Conjunctive IP Tap Mist I. Modern Cataract Surgey Gark J N Jr. Sarcoma of the Chorold Luss F W The Dispensoire and Processities Sig	411 411 411 412 412	WEBSEE B CLAWSON TA and CHESPEY A VICE THE BEST OF THE	415 416 416 417
nincance of Retinal Hæmorrhage	413	Brain and Its Coverings Cranial Nerves	
MENCEL W G Retinal Disease with Massive Exudation Report of a Case	413	Poe D L A Study of the Fos a Subarcuata as a Passageway for Infection from the Labyrinth to the Cerebellum	414
MAYER O The Pathology of Otosclerosis	413	INGVAR S Studies in Neurology 11 On Cerebel	
PONTMANN G Vasomotor Affections of the In-	413	lar Function NAFFZIGER H C and IONES O W Late Trau	418
Por D L A Study of the Fossa Subarcuata as a Passageway for Infection from the Labyrinth to the Cerebellum	414	matic Apoplexy McLean A J The Transbuccal Approach to the Encephalon	418 418
Nose and Sinuses		DANDY W. E. Venous Abnormalities and Angioma ta of the Brain	410
CARTER W. W. The Prevention of Nasal Deforms ties Following the Submucous Operation	414	CUSHING H and BOVIE W R Electrosurgery as an Aid to the Removal of Intracranial Tumors	419
LEDERAR F L and LIVINGSTON G S Tuberculo sis of the Masal Accessory Sinuses	414	CORDES E Osteoplastic Endothelioma of the Dura	419
Lille H. I and Lillie W. I. The Effect on Certain Syndromes of Chiasmal Tumor Prantier G. E. Roentgenological Signs Which In	414	GUEDJIAN E S and WILLIAMS H W The Sur gical Treatment of Intractable Ca es of Blephar ospasm	420
and Sphenoid Sinuses to the Research the Chill	415	INGUAR S On the Pathogenesis of the Argyll Robertson I henomenon	420
WATSON WILLIAMS P Optic Neuritis Following Spenoidal Sinusitis Located by the Differential		Spinal Cord and Its Coverings	
brotatory, 1620	415	STOOKEY B Tumors of the Spinal Cord in Child	
Pherynx Richy O. C.		Peripheral Nerves	421
Ricay O C Intramuscular Injections of Bismuth a Specific Treatment for Vincent's Angina Neck	415	PLATE II The Operative Treatment of Traumatic Ulnar Neuritis at the Elbow	422
CHESNEY A.M. CLARGO, T. A. and N. and N.		Sympathetic Nerves	
Findemic Goster in I abbits 1 Incidence and Characteristics		SCARLETT II W The Frequency of the Claude	

Bernard Horner Syndrome

422

WEIGH M. Inflammatory Diseases and Hzmatomata of the Antenor Abdomnal Wall

ıv

BUKLBRING E Malignant Neuroblastoms of the Sympathetic

Davis C. A. A. A.	4+3	mata of the Antenor Abdominal Wall	43
BRATICKER Surgery of the Sympathetic in the	:	Bulley H Strangulated Femoral Hernia	430
	423	SCHAER W The Determination of the Vitality of	430
RIEDER W Investigations by Capillary Microscopy	•	Leucocytes in Pentoneal Exudate	430
in Penartetial Sympathectomy	423	DUDLEY G S Endothehoma of the Pentoneum,	
Miscellaneous		The state of the s	411
NEDELMANN E A Malignant Tumor of the Thymus		Gastro Intestinal Tract	
with Peculiar Metastasis into the Central Nerv			
ous System A Contribution on the Question of		M CRACALN I E Consecut to Tests by the	
Tumor Metastasis by the Cerebrospinal Fluid		Fractional Method of Ca to. Analy s	430
Route	423	NAUMANN II Fatal Hamorrha e from a Gastre	
WOOLLARD H H The Comparative Anatomy of	7-3	Ulcer Which Could Scarcely Be Seen at Autopoy	431
Ppientic and Protopathic Sensation	421	MANDLER V Gastric Ule and the Baylist-	
a pressure and a recopiating destination	4-1	Starling Law	432
		Harre I'll and Javkerson I R Late In	
SURGERY OF THE CHEST		tussusception of the Box el into the Stomach	
DUNGSKI OF THE CHEST		After Gastro-Enterostomy	452
Chest Wall and Breast		Woodson's G Gastric Carcinoma After Gastro-	
ISELIN II Postoperative \ Ray Treatment of		Enterostomy for Ulcer	4,52
Cancer of the Breast	425	MOYNMAN SIR B Problems in Gastine Surgery	4.12
	4-3	FLENT E R Complete Gastrectomy for Carcinoma	
Trachea Lungs and Pleura		of the Stomach	431
PRIOTEAU W H Tracheotomy Technique and		SHERRY L B Two Cases of Benign Intestinal	
After Care of the Patient.	425	Obstruction.	435
MATRER J H and Coops K The Accessory Lobe		RETAN G W Yon-Operative Treatment of	100
of the Azygos Vein	425	Intussus eption	430
CRATGORD C Two Cases of Obstructive Pulmon			10
ary Emboli m Successfully Operated Lpon	426	More P J and Warker G F Sar ona of the Small Intestine	436
ANSTROM G Experiences in Three Cases in Which	.,		47.
the Trendel nburg Operation Was Done for		GREEN N W Polypoid Adenocarcinoma of the	416
Lu'monary Lubolism	426	Jejunum with Acute Intussusception	4.0
LIGESLER L Congenital Cystic Disease of the		GREEN A !! Leiomyoms of the Jejunum with	436
Lung	426	Intussusception	47.
THORPE I S Chronic Broncluectasis in Caild	4.0	CALDRICK S L Two Cases of Persistent Outphalo-	6,0
flood.	42	mesentenc Duct	620
	4.	RVLE J A Chronic Spasmodic Affections of the	435
MODRE W F Bronchoscopic Treatment of Bron		Colon and the Diseases Which They Simola e	
chiectasis in Children	42,	THORLARSON P H T Likerative Colis	43
WHITTEMORE W The Treatm at of Chronic		And L. Primary Carcinoma of Baubin's Valve	4.7
Bronchopulmonary Suppurative Lesions Limit ed to One Lobe of the Lung	427	FRIED II Roentgenological Study of the In e tol	
en to oue cooe of the Lung	4-7	Cæcum	437
Heart and Pericardium		MONNER E The Diamosis of Appendicus in	
STEVENSON G. If and MARSHALI A J. Rupture		Childhood	438
of the Heart from a Pyarmic Absces in the		BETTYLE II W Chroni Appendicitis from the	_
Myocardium.	427	Liewpoint of an Internist	43S
ALEXANDER E G Suppurative Pericarditi from		HORNEYG R 1 Contribut on on the Relatio Be	
the Surgical Vie spoint	438	tween the 'ppendix and the Genitalia (a) Car	
		cmoma (b) I seudomy toma	438
Esophagus and Mediastinum		LU by G On the Treatment of Prolapsus Rech.	439
BEATTE C C Congenital Stenosis of the Esopha			
gus	425	Rectum Their Lause and Frevention	439
=		DISTERICH H Experience at the Glessen Chr cm	
Miscellaneous		the Radical Treatment of Rectal Carenoma.	439
GITON C. II and MEARA F 5 Chest Pains	429	the Gamen Attended of Meters of tensors	
MCPHEDRAN F M and WEYL C N The Value		Town on the barry Deserves and Spices	
of Synchronization in the Accurate Di Probis	***	Liver Gall Bladder Pantreas and Spicen	419
of Chest Diseases	429	HORRALL O H Edirubin a Non Tough Substantin	413
		KATAYAMA, I Bile Acids in Jaundice	**
AND ADDRESS OF STREET			
SURGERY OF THE ABDOMEN			447
Abdominal Wall and Perstoneum			
Abdominal wan and Perinbutan			449
ROSE BLATT M S and MEYERS M Muscle Fascia Suture with Preserved Fascia and Tendon	430	Aecros s	***
Pascia Sulute with Preserved a and while delicon			

HERSCHEN C and REISSINGER H Contributions on the Chincal Physiology of the Spleen Ex		CROSSEN R J and Moore S Cholecystographic Studies in Pregnancy	448
perimental Studies of the Variations in Volume and the Contractility of the Spleen Its Circula		LANE ROBERTS C S Abdominal Pain in Preg- nancy	440
tion and the Closure of the Splenic Artery EURINGER H The Function of the Liver in Preg- nancy 11 The Occurrence of Viscerosensory	441	Post A The Early Diagnosis Etiology and Treatment of Pernicious Types of Anamus in	
Hepatic Bile Reflexes in Pregnancy	447	Pregnancy Jacić N The Indications for the Interruption of	419
CROSSEN R J and MOORE S Cholecystographic Studies in Pregnancy	448	Pregnancy in Diseases of the Circulatory System Trus P The Influence of Blood Chemistry Studies	449
BOWEN B D VALGHAN S L and KOENIG E C The Relation of Liver and Gall Fladder Disease to Diabetes with a Report of Liver Function Tests and Cholecystography in a Group of Cases		on the Present Treatment of Pregnancy Tov	450
of Diabetes and Alimentary Glycosuma	480	Labor and Its Complications	
Miscellaneous		Van Hoosen B Scopolamine Anasthesia in the Second Stage of Abnormal Labor	450
LEMON W. S. The Function of the Diaphragm CALDRICK S. L. Two Cases of Visceral Fistula	441	Bill A H The Problem of the Vertex Occipito- posterior Position	450
Treated without Secondary Operation	442	IVENS F The Scope of Casarean Section Cosgrove S A Casarean Section and Forceps	451
		When They Must Not Be Used	452
GYNECOLOGY Uterus		Puerperium and Its Complications	
DAM: P The Operative Treatment of Prolapse with Special Reference to the Interposition		VERTES O The Cessation of Menstruation During Lactation	452
Method PHANEUT L E The Benign Lesions of the Uterine	443	Report of the Committee on Survey of the Inci- dence of Puerperal Septicæmia in Massachu	
Cervix and Their Treatment	443	Setts in 1927 Armstrong R R and Shaw W Strentococcal	453
Fitzgibbon G Fibromyomata Thuer H Lipoma of the Uterus	443	Vaccines in the Treatment of Puerperal Sepsis	453
Schurz H The Diagnosis and Treatment of Uterne Cancer	444	Miscellaneous	
		RADWANY S The Behavior of the Blood Platelets	
Adneral and Perinterine Conditions REISNER A The Relation of Local and General		in Labor the Fuerperium and Certain Ob- stetrical Complications	453
Treatment of Gonorrhora in the Female to Lx tension of the Condition to the Uterine Adnesa	411		
Kozocki W A Case of Bilateral Angiohyperneph roma of the Ovary		GENITO URINARY SURGERY	
•	445	Adrenal Kidney and Ureter	
External Gemtalia		BOTHE A E Primary Extrarenal Hypernephroma	454
GRENNIL J P Vaginal Discharge Due to Trichomonas Vaginalis	445	Muscle of the Kidney	454
Bissell D Genito-Urinary Fistula in the Female with an Appreciation of Sims and His Work	445	BUGBEE H G The Rôle of Kidney Function in Urological Surgery	454
Miscellaneous	445	Lauber H J The Diagnostic Significance of the Ampullary kenal Pelvis	455
BLYTHIN W Genetal Hæmorrhages in Old Women		Morison D M Routes of Absorption in Hydro	733
WILLIAMS E The Acute Pelvis		nephrosis Experimentation with Dyes in the Totally Obstructed Ureter	455
Janean J The Artificial Production of Sterlity	446 446	TERRER J C Obstruction to the Venous Circula	4.2
OBSTETRICS		tion in the Kidney Caused by Distention of the Pelvis and Calyces with Special Reference to Pyelovenous Backflow	455
Pregnancy and Its Complications		BILLINGTON W The Therapeutic Value of Neph	-33
GUTHINN II The Practical and Scientific Value		SCHOLL, A. J. Kidney Resection	455
of the Lateral Describer and Scientific Value		perioded) Tomich resection	456

447

447

of the Lateral Roentgenogram in Pregnancy

Errocke II The Function of the Liver in Preg hancy II The Occurrence of Viscerosensory Hepatic Bile Reflexes in Pregnancy

Ectopic Ureters

SPITZER W M and WALLEY I E Supernumerary

KLEIN W O A Large Extravesical Ureteral Stone
Which Had Perforated

456

456

458

458

4,8

4 0

460

460

46a

461

463

463

463

463

465

465

466

466

I ARTSCH and BREITLAENDER The Roentgenological Demonstration of Stricture and Rupture of the Urethra

Genital Organs

BUMPUS H C, JR and TROMPSON G J Tuber culous of the G rutal Tract Hnwan Γ The Surgical Treatment of Urogenital Tuberculosis

CAULK J R. The Author's Cautery Punch for Prostatic Obstruction

LONSLEY O S Surgery of the Prostate Gland with a Report of Operative Results KOLNICK II C The Pathology of Epididemitis

LINDGREN D Septic Epididymitis with Special Repard to the Loruns with a Chronic Course

KRETSCHMER H L Tuberculosis of the Fnidid ymis A Criti al Review Based on the Study of Amety Four Cases

WESSON M B Traumatic Orchitis nomer STEVENS A R, and EWING I Adengearemonta of the Testis in the Adult 462

KELLEY I E and HUEPER W C Carcinoma of 101 the Testicle The Treatment of a Case of Male CECIL A. B

462 Hypospadias Cectto A B The Treatment of a Case of Male 462

Emspadias Miscellaneous

REDEWILL, T. H. The Physiology of Mictimition SOLOWAY H M Extravasation of Unine KELSTED K and SCHOOL E The Treatment of

Lofection of the Urmary Tract ROSENSTEIN P Primary Suture in Urological Operations Also a Contribution on Cystope v

SURGERY OF THE BONES JOINTS MUSCLES TENDONS

Conditions of the Bones Joints Muscles Tendons Etc. WATT I C The Development of Bone (4) The Process of Development in Bones of Different Types (B) Normal Physiological Calcification of the Matrix in Cartilage and in Bone (C) The

Problem of the Manner of Depo tuon of the Calcium Saits America Infarcts in the Osseous AXHAUSEN G System and Their Significance with Regard to

the Theory of Primary Epiphyseal Accroses BECEMAN T and IVARSSON G 40-Called Chon

dromatosis of Joint Capsules PREMISTER, D B The Lathology and Treatment of Pyogenic Arthritis

Lesions Produced by Forced 45-LeFort R and Inceleans P Mild Osteomyehus of the Vertebre 457

Injection Procedures

207

af x

168

ést

468

40

ďο

4 2

4 2

JE SE. J P Spondylitis Produced by the Aber tion Bacillus of Bang COLP P F Y Ray Examination of the Lun 458 bosacral Region with Reference to Low Back

Pam HARDIC W. Sacro-Iliac Pain u LEOMAN The Relation of Arthritis of the Sacro-Iliac Joint to Sciatica

WILBELM R ew Lontzburyons on the France of Malformations of the Aeck and Head of the Lemur NADE R B The So Called Congental Pres

darth os a of the Tibas 10 Inglis K The Pathology of Convental Pen-40 darthrosis of the Tihux HUGHES W L. Hallur Valeus 41

Surgery of the Bones Joints Muscles Tendons Etc DUNN N The Surgery of Muscle and Tendon to 4 1 Relation to Infantile Paralysis

KIDNER F C End Results of Extra Articular Fit ation of the Tuberculous Il p in Children Fractures and Dislocations

CRAIG C A Series of Fractures of the Long Boots Treated by the Methods of h. Hamilton SIMON J Traumatic Posterior Dislocation of the Shoulder MAGNUSON P B Fractures of Metacarpals and

Phalanges MACAUSLAND W. R. Th. Treatment of Congeni 4 3 tal Dislocation of the Hip by Open Operation

SURGERY OF BLOOD AND LYMPH SYSTEMS Blood Vessels DANDY W E Venous Abnormalities and Angio mata of the Brain

Two Cases of Obstructive Pul CRAFOORD C 426 monary Embolism Successfully Operated Lpon Mastron G Experiences in Three Ca es in Which the Trendelenburg Operation Was Done for 426 Pulmonary Lmbolism 44 MIDDLETON II 5 Lenous Pressure 4 4

HOLMAN E F Artenovenous Angunsm Blood Transfusion

The Early Diagnosis Etiology and Posts. A Treatment of Lemicious Types of Income in Pregnancy

The Influence of Blood Cheraustry Trrus P Studies on the Present Treatment of Pres nancy Toxemus

453

4 4

475

480

RADWANY 5 The Behavior of the Blood Platelets in Labor the Puerperium and Certain Ob

Firatov A Clinical and Experimental Con inhutions on the Effect of Blood Extravasated

GRANEY K Accident Transfusion of Leukæmic

HUEPER W C Agranulocytosis (Schultz) and

the Agran slocytic Symptom Complex

stetrical Complications

into the Body Cavities

Blood

PARTSON and BRIETLAENDER The Roentgeno-

COLE P F \ Ray Examination of the Lumbosa cial Region with Reference to Low Back Pain

ANDERSON C C The Radiological Diagnosis of

GLASSER O PORTMANN U V and SEITZ V B
The Condenser Dosimeter and Its Use in

Measuring Radiation Over a Wide Range of

of the Urethra

Hydatid Infection

logical Demonstration of Stricture and Rupture

458

468

478

EMERSON W C The Effect of Ether Anaesthesia		wave Lengths	4/0
	82	EVANS W A and LEUCUTIA T The Massive and Hypermassive Radiation in the Treat ment of Skin Capters	478
SURGICAL TECHNIQUE Operative Surgery and Technique Postoperative Treatment STRUMANY H The End Result in a Case of	ive	BONEY B D VAUGHAN S L and KORNO E C The Relation of Liver and Gall Bladder Disease to Diabetes with a Report of Liver Function Tests and Cholecystography in a Group of Cases of Diabetes and Almentary Glycosuna	480
Embolism of the Pulmonary Artery Cured by	476	Radium FINZI N S and HARMER D Radium Treatment	
Antiseptic Surgery, Treatment of Wounds and Infections		of Intrasic Caremoma of the Laryax	416
RECENDED III The Relief of Stasis in the Inflamed Blood Vessels by Means of Alkalies	476	Miscellaneous	
Zorlier C J Vaccination Against Tetanus with	476	FINDLAY G. M. Ultraviolet Light and Skin Cancer Martin W. Physical Measures as an Adjunct to	4 9
Aneswesia	•/0	Surgery DORAN W. G. Physical Therapy Aids in Fracture	479
VAN Hoosey B Sconolamine Angesthesia in the		and Orthopedic Cases	479
MASSELD G The All or None Law of Narcosis and the Critique of Hans Winterstein Frankey H and SCHURRYEYPE A College and	450 476	MISCELLANEOUS Clinical Entities—General Physiological Condition	ıs
Circulating Blood in Ether Avertin and Actly the Austhesia and Its Significance Eurasov W. C. The Effect of Puber Aposthesia	477	BOWEY B D VAUGHAN S L and KOENIG E C The Relation of Liver and Gall Bladder Disease to Diabetes with a Report of Liver Function Tests and Cholecystography in a Group of	
and Shock on the Calcium of the Blood	482	Cases of Diabetes and Alimentary Glycosuma Bennert T I and Pourson E P Raynaud's	480
PHYSICOCHEMICAL METHODS IN SURGER	RY	Disease Associated with Cancer of the Stomach	480
Roentgenology		General Bacterial Protozoan and Parasitic Infec	
Pranter G E Roentgenological Signs Which Indicate Extension of Infection from the Ethmod and Sphenoid Sinuses to the Base of the Skill Institute of the Skill Institute of the I	415	HUEFER W. C. Agranulocytosis (Schultz) and the Agranulocytic Symptom Complex BIRELIALO E. E. The Eurology of Erysipejas Jacobson H. P. Coccidioidal Granuloma	480 481 481
Cancer of the Breast	425	Experimental Surgery	
Michaedran F M and Weyl C N The Value of Synchronization in the Accurate Diagnosis of Chest Diseases	429	POULTON E P An Experimental Study of Certain Visceral Sensations EMERSON W C The Effect of Ether Anasthesia	48t
Frip H Roentgenological Study of the Inverted Cacum	437	and Snock on the Calcium of the Blood	482
GUTHMANN II The Practical and Scientific Value of the Lateral Roentgenogram in I regnancy CROSSEN R J and MOORE S Cholecystographic Studies in Prepractical	447	Hospitals Medical Education and History MacLachern M T How Social Service Supple	
Study's in Pregnancy Cholecystographic	448	ments Treatment	482

BIBLIOGRAPHY

Surgery of the Head and Neck	Genito-Urinary Surgery
Ifead	Adrenal Kidney and Ureter 47 5 Bladder Urethra and Penis 45 6 Genital Organs 47 Viscellaneous 65
Surgery of the Nervous Sys em	Conditions of the Bone Joints Muscles Tendons Etc. 500 Surgery of the Bones Joints, Muscles Tendons Etc. 500 Fractures and Dislocations Orthopedics in General 501
Surgery of the Chest	Blood Vessels 507 Blood Transfusion 503 Retuculo-Ladothelial System 303 Lymph Glands and Lymphatic Vessels 501
Miscellaneous	Operative Surgery and Technique Postoperative Treatment Antiseptic Su gery Treatment of Wounds and Infections 504
Gynecology Uterus 492 Adneral and Penuterine Conditions 492 External Genitalia 493 Miscellaneous 493	Physicochemical Methods in Surgety
Obstetrics Pregnancy and Its Complications	Clinical Entities—General Physiological Conditions of General Biscenal, Protozoan, and Parasine Infections Discussed States of

AUTHORS OF ARTICLES ABSTRACTED

AUTHORS OF ARTICLES ABSTRACTED

Salin I. 417
Alexander E. G. 438
Admittong R. R. 433
Aumittong R. R. 435
Aumittong R. R. 435
Aumittong R. R. 437
Fintal R. 447
Ashruse G. 469
Fintal R. 447
Fintal R. 447
Eacher F. W. 457
Eacher J. R. 447
Eacher J. C. 448
Eacher J

EDITOR'S COMMENT

M OVNIHAN S discussion of problems in gastric surgery (p. 432) emphasizes a number of important points. He con sider first of all thit the terms gastroducedenal ulcer' and juxtapyloric ulcer are misleading and should not be used. He mentions the differences in symptoms in behavior as regards per forstion and hemorrhage, and in their tendency to undergo malignant degeneration as some of the definite indications of the essential differences between gastric and duoderal ulcers.

Although he agrees that gastine and duodenal ducers may heal and remain healed under both medical treatment and surgical treatment he mephasizes the fact that before treatment is begun the presence of an ulcer must be definitely established and that the V-1 ro findings must be carefully considered to avoid misinterpretation. Medical treatment has won an undeservedly high repute for curing ulcer in cases in which no ulcer was present just as surger, has been brought into bad repute by, the performance of gastroe-metorstony in cases in a which no ulcer was present.

He does not believe that a large penetrating gastire ulerc and be healed in three weeks incarefully watched cases which were found at operation to be too high for resection and in one of three did healing occur in less than four months. He also takes exception to Hust's statement that penetrating and calloused ulers may heal in four months for he has found that it may require as long as three years.

He calls attention to the modern tendency of surgeons to abandon short-circuiting operations because of the unsatisfactory results obtained (in 36 per cent of cases as reported by Lake) because of the expressed belief that gastric and duodenal ulcers are as likely to bleed after operation as before (Pannett) and because of the not in frequent occurrence of a postoperative jejural ulcer (in 34 per cent of cases in which a castro enterostomy was performed for duodenal ulcer by Lewisohn) In answer to the first statement Moynihan expresses his behef that such oper ations are the most successful of all abdominal operations It is essential however that the patient be properly prepared before operation that dental infection be eradicated that at oper

ation the ulcer itself be dealt with by cautenzation or otherwise, that the appendix be removed and the biliary tract and spleen carefully examined and that after operation the patient should have a carefully regulated diet with restriction of tobacco alcohol and salt. Obviously, gastroenterostomy should not be performed for lead poisoning tabes visceroptosis or achlorhydna If bleeding continues after operation it must be assumed that the operation of gastro-enterestons was done in cases for which it was unsuitable or that a duodenal ulcer was left untouched Jejunal ulcer may appear as a postoperative com plication of gastro enterostomy even as late as nineteen years after operation but even after three fourths of the stomach has been removed free hydrochloric acid may still be found in the gastric contents so that the claim that secondars ulcers will not form after gastrectomy because of the anacidity following the operation has been repeatedly disproved "Already more than tocases of rejunal ulcer following gastrectomy for duodenal ulcer have been reported

That gastro-enterostomies frequently requirements from the many cases that Movimhan has separated were there using ocal signs of an old or recent gastri or duide...d

M Crackens review of seventy fix casts in which a fractional gastric analysis was more in two or more occa, sons and in which 4 pre-ceed of the patients showed a different care who tested the second time (p. 431) indicates the necessity for repeated examination of the gastric contents if one is to obtain a true in ture of the secretory activity. First seport of the sources if removal of the entire stomach for gastric car curoons (p. 432) and White and Jankelson ser port of two cases of late intussusception of the bowel into the stomach after gastro-enterostomy (p. 432) are also of particular interest in constitution with the subject of gastrice suffery.

Lemon s experimental studies of the function of the disaphragm (p. 441). Phemister s discussion of the pathology and treatment of pi-granarthritis (p. 460) and Nen s description of the technique of a simplified two-stege largy actions are a few of many other interesting reviews in this month's issue of the Margacot.

INTERNATIONAL ABSTRACT OF SURGERY

MAY 1929

LANDMARKS IN SURGICAL PROGRESS

BY IRVING S CUTTER M.D. Sc.D. CHICAGO
D an No thwestern University Med cal School

LATERAL ANASTOMOSIS OF THE INTESTINE-PHILIP SYNG PHYSICK

HE surgical career of Philip Syng Physick favorite American pupil of John Hunter and first American to become house surgeon in St George's Hospital exemplified the teaching of the Hunterian School Closely associated with Hunter as resident pupil for a year and a half with an addi tional year spent as house sur geon I hysick absorbed his mas ters enthusiasm and fondness for experiment Hunter made use of Physick's aptitude in this re spect as is shown by a note in Hunter's Treatise on the Blood Inflammation and Gun Shot Wounds 1

Many of these experiments were repeated by my desire by Dr. Thisick, now of I hiladelphia, when he acted as house surgeon at St. George's thospital whose accuracy I could depend upon's

Few surgeons of a later day have done more to advance the methods of surgery than Philip Syng Physick. A study of his life and cracer imprese so one with his ingenuity and resourcefulness as well as his sound knowledge of basic surgical principles. His fame re is upon his outstanding teaching abbits; and on numerous ingenious im prosements in the practice of surgery. The two

Log 1 194 Fool of t ettle VII Ch pt r 1 1 1 1



(768 tS ₁)

volume Elements of Surgery 3 published by Physick's nephew John Syng Dorsey is a carefully compiled and well arranged trea tise drawn largely from Physick's lectures on surgery which he be gan to deliver to students shortly after his appointment as attend ing surgeon to the Pennsylvania Hospital Physick inaugurated private lectures in surgery in 1800 and in 1805 his appointment as Professor of Surgery in the Uni versity of Pennsylvania gave him the widest possible field for the dissemination to eager American students of the surgery of John Hunter Dorsey's Elements records scores of useful surgical

procedures manyrurated by Physich mrmy of which were unique. I hysick greath improved Desault's splint for the treatment of fracture of the femur providing by this improvement better immobilization and insuring greater conflott for the patient. He advocated a successful method of stimulating bony union in cases of ununited fractures and was the first American to wash out the stomach by means of a gum elastic tube with syringe attached. At the time he was unaware.

Joh Sy ED cey 78; 8 8 1 rt u gr ing by Dods

the port ith ever p blad the Elicky by d

of the earlier work of Alexander Monro Ir of Edinburgh who had advocated this procedure in his inaugural thesis published in 1707 1 Appar ently neither Physick nor Monro had noted the article by John Hunter in which was detailed the use of a flexible tube for the purpose of conveying food into the stomach Hunter's case was entitled

A Case of Paralysis of the Muscles of Degluti tion Cured by an Artificial Mode of Conveying Food and Medicines into the Stomach 2 Physick greatly improved the instruments used in lithot omy in which he was an expert operator One of Physick s famous cases is the operation for hithot omy which he performed in 1811 upon Chief Justice Marshall' who was at the time in his seventy fifth year. His improvements in the method of excising diseased tonsils and hæmor rhoids are well known Division of stricture of the urethra by means of a cutting instrument was first performed by Dr Physick in 1795 with in struments of his own devising. He was a pioneer in experimental work on absorbable ligatures of

animal origin. The second edition of Dorsey's Elements of Surgery 4 contains the following paragraphs

Shortly after the first edition of this work was published Dr Physick suggested to the author the propriety of testing by experiment the value of an improvement he had long contemplated in the formation of ligatures-this was accordingly done and has resulted in the substitution of certain animal substances for the materials formerly employed

The first experiment made to ascertain the correct ness of these opinions was the application of a buck skin ligature to a large artery in a horse. It restrained the bleeding and was discharged in a liquid

state in two or three days

Some time after this experiment Dr Hart shorne employed ligatures of animal matter for securing the blood vessels in the human subject He amputated a leg at the Pennsylvania Hospital and tied up the vessels with strips of parchment which were found to answer extremely well. At the first dressing the ligatures were found dissolved and never occasioned any inconvenience

Pursuing the enquiry I performed a number of experiments with various animal substances as cat gut parchment and various kinds of leather In many respects however Physick's opera

tion for the cure of artificial anus by a lateral iPhylick II tt iso t thi th is in bogs teme too t the di the Eir Rpiry descript from H t p p with the the through the thought the through the did the through the J h M rshall 755 835 Chi f J t Ith L 1 d St

anastomosis of the gut showed superior knowl edge of physiology and of the principles of sur gery Due to gangrene incident to a strangulated hermia an artificial anus was occasionally met Physick s famous case was operated upon in 1800 He subsequently described the case in lectures to his classes and Dorsey's description appeared in his Elements in 1813 Later a full report prepared by Dr B H Coates anpeared in Volume II of the Aorth American Medical and Surgical Journal Dorsey's Ele ments contains the paragraph published here with in facsimile. The report of Dr Coates gives in greater detail a description of the oner

The two ends of the intestine were found by a careful examination to adhere to each other for some distance and the form thus presented his been compared in this case to that of a double barrelled gun

The next method proposed by Dr Physick was to cut a lateral opening through the sides of the intestine where they were adherent But not knowing the extent of the adhesion inwards he thought it necessary to adopt some preliminary measure for ensuring its existence to such a depth as might admit of the contemplated lateral opening without penetrating the cavity of the peritoneum By introducing his finger into the intestine through one orifice and his thumb through the other he was enabled to satisfy himself that nothing inter vened between them but the sides of the bowel He was thus enabled without risk to pass a needle armed with a ligature from one portion of the intestine into the other through the sides which were in contact about an inch within the critices which ligature was then secured with a slipknot

This operation was performed on the 18th day of

January 1800 After about three weeks had elapsed concluding

that the required union between the two folds of perstoneum was sufficiently ensured Dr Physick divided with a bistoury all the parts which now re mained included within the noose of the ligature No unfavourable symptom occurred in consequence

Two or three weeks subsequent to the com pletion of the lateral anastomosis fæcal matter passed through the new opening and was voided through the natural channel occasionally how ever through the artificial opening. The patient was discharged from the Pennsylvania Hospital before the external opening had entirely closed which according to Dr Dorsey ultimately occurred

An earlier procedure seeking a remedy for this distressing condition appeared in a paper by Christianus Ernestus Schmalkalden published in

Ph lad lphus 318 Joseph H ther 1779- \$5 em tPhildiph urg

In a patient with artificial anus at the Pennsylvania Hospital Dr Physick performed an operation which will probably be found to afford complete relief in many similar cases. The sides of the intestine in this in stance were consolidated laterally or in Mr Cooper's language like a double-barrelled gun. In order to en sure this union a ligature was passed through the intestine and suffered to rem in a week, keeping its sides to close contact, after which Dr Physick cut a hole to the side of the intesting where the two portions had thus natted, and by stopping the external ornice, the faces regained their natural route, the external aperture was afterwards healed and the nations relieved from his most loathsome complaint he has for several years en-Joyed perfect bealth.

Facsimile of first published report of Physick's anas tomosis of the intestine-Dorsey's Elements of Surgery Philadelphia 1813

1798 t Schmalkalden's pamphlet was probably unknown to Physick Desault² had advocated the removal of the dividing septum between the two loops of gut which he called the spur his lectures on chinical surgery Dupuytren3 cites a case which came under his care in 1800 in which the idea of dividing the septum creating a lateral anastomosis occurred to him Recognizing how ever the facility with which serous membranes unite, he advocated passing a ligature through the adherent sides of both ends of the intestine as far as possible from the projection of the spur the opening made by the ligature later to be en larged so as to admit a piece of braid thus making it possible to enlarge the opening still further by means of a perforating instrument. It does not appear that Dupuy tren actually performed the operation until 1813 In his Clinical Lectures 4 describing Case II he said

I resolved therefore on perforating this septum and then pierce it with a needle carried as high as possible into the cavity of the upper end its point being received in the cavity of the lower end and drawn out A ligature with which the needle was armed was left in the opening thus made

A few days after a larger ligature was introduced through the aperture From that time gas began to escape from the natural anus The size of the liga ture was increased at each dressing and in eight days the patient passed his faces by the funda ment

Desirous of removing completely the di ease I thought that the portion of the septum above the aperture made by the needle ought also to take on t otto 1 tio f t

per tru t

DP 3

the adhesive process and that it might be divided with as little danger as the part below and therefore determined to make the attempt. This consisted in an incision every three or four days at the distance of half a line from the upper part of the sentum by means of blunt scissors directed on the index finger These incisions small in extent and not passing be yond the limits of the already established adhesions, increased the aperture of communication so much that the foces were discharged by the natural anus

Dupuytren reports that yielding to the impor tunities of his patient he completely divided the septum and a few hours later his patient showed symptoms of peritonitis which resulted in death Dupuytren however continued to advocate the procedure and his Lectures on Chinical Sur gery contains his summary of the experience of himself and others

From 1813 to 1824 forty one operations of this nature have been performed twenty one by our selves and twenty by other surgeons amongst whom we name with pleasure M Lallemant of Mont nelier Three fourths of them were in consequence of gangrene following strangulated hernia and the remaining fourth of wounds with more or less con siderable loss of substance of the alimentary canal Of these forty one cases three have died one from supposed effusion of fæcal matter one from indiges tion and a third from acute peritonitis. Of the thirty eight remaining the majority had not an unpleasant symptom some it is true suffered from colic nausea and even vomiting but they were soon relieved by effervescent draughts and the application of leeches to the anus and emollient fomentations to the abdomen

The cure has not been equally perfect in all these cases. In nine there have remained fistulas of various extent obliging the patient to near constantly a bandage in order to prevent the escape of flatus mucous bilious or fæcal matter. The other twenty nine were radically cured in from two to six months The fatality has therefore been one in fourteen and taking away the one who perished accidentally from indigestion it is reduced to one twentieth of the cases operated upon a result much more favorable than generally obtained in great surgical operations Listly it is to be remarked that the last fourth of nationis although less fortunate and obliged to wear a bandage with a pad were in a situation in comparably preferable to that in which they had previously existed

Philip Syng Physick was born in Philadelphia in 1768. He was prepared for college under Robert Proud and entered the University of Pennsylvania receiving his A B degree in 1785 Shortly thereafter he enrolled as pupil apprentice under Dr Adam Kuhn' attending in addition

Ad m K h 17 8 7 p fe for f m t ris m dica ad botany ath Phil d lahis Coll g | M d ine

m the diri other margination of the margination of Gu'll m D puyer 1777 835

Per \$3 1 1 H p 464

lectures in the University. After an apprentice ship of three and a hily years he accompanied his father to Lurope and enrolled as a student under John Hunter the leading. English surgeon and physiologist of the day. In May, 1791, upon the completion of a one year surgical residency in ST Ceorges Hospital heavas admitted alicentiate of the Royal College of Surgeons. He then proceeded to Enhancy the was granted the degree of Doctor of Medicine He returned to Philadelphia in the fall of that year. In 1794 he became one of the surgeons of the Punnsylvanna Hospital and in 1804 was elected Professor of Surgery in the University of Penn sylvanua. In 1807 his nephew John Syng Dorsey Shanua.

was made his adjunct in the Depa treet of Surgery. He was an impressive lecturer usually reading his lectures from manus.ripts or using copious note. In 1810 he resigned the chair of surgery and was transferred to that of anatomy

For more than a thurd of a century. Physical as the surgical mentor of theisiands of students and his surgical teaching widely disseminated torough his pupils and through Dorsey's *Elements pointed the way to greatly improved surgical practice. Problemly no surgical teachers in tensor practice. Problemly no surgical teachers in tensor exercised so wide an influence as did Physick. His brought to America the surgery of blink fluer of and has deservedly received the appellistion. The Father of American Surgers!

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

EYE

Gill W D Ocular Symptomatology in Dengue Based on an Analysis of 1 241 Cases Arch Ophth 1928 lvii 628

In dengue fever the ocular symptoms are a strik, me feature of the carly stages of the disease. During an epidemic in 1923 1 2 at patients with dengue fever were admitted to the Station Hospital at Fort Sam Houston Texas. In these cases photophobia was an early symptom often preceding all others and was most marked during the first day or two quite intense retrobulbar pain and headache were present in every case. These symptoms were as characteristic of the condition as the dermatological signs and adenopathy. Other symptoms included computed to the conference of the condition as the dermatological signs and adenopathy. Other symptoms included computed to the conference of the condition as the dermatological signs and adenopathy.

too and globar tenderness.

No organism was found to account for the conjunctual hyperarma. Engotgement of the retunal
dood vessels was a constant finding. It began early
and was most marked on the third or fourth day
aben the headache and retrobibliar pans were also
such the headache and retrobibliar pans were also
such that the second of the second of the second of the
second of the optic nerve head without swell
age of bland of the optic nerve head without swell
to a washest of the disk margins. In some of the
care washess of the disk margins in some of the
care washess of the disk margins in some of the
care washess of the disk margins in some of the
care washess of the optic nerve head without swell
so that claim washes to be a second of the optic nerve head without the
care washess of the optic nerve head without the
care washess of the optic nerve head without the
care washess of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care washes of the optic nerve head without the
care wa

Reymouth F W and Others Visual Acuity with In the Area Centralis and Its Relation to Eye Movements and Fixation Am J Ophih 1928 1949

This article reports an investigation of the visual acuty of a central retural region (including the foreal with a radius of 85 or o 42 mm from the axis of fixation. The method of observation yielded signatured as follows.

These are sum manized as follows.

I has being a superior of the superior of the

2 For two observers a significant difference is shown to exist between direct fixation and 22 and

for one observer for 11 showing that the gradient continues to the very center of the retina A similar retinal gradient is indicated by Wertheim to 2 30, and by Aubert to 1 15

3 The horizontal and vertical meridians (the only ones tested) are shown to have different rates of decrease of visual acusty from the axis of fixation

4 The acusty is shown to be higher when the lines of the test object point toward the axis of fixation

5 These results strongly support the view that the sensory gradient is the basic factor in eye move ments and fixation

Among the factors affecting monocular visual acuity may be included the following

A Factors related to the eye

1 Sensibility of the retina varying with (a) age and sex (b) retinal adaptation and (c) topography of the retina

2 Refractive condition of the eye varying with (a) age and sex (b) refractive errors

3 Pupillary diameter

4 Eye movements

B Factors related to the stimulus (1) size of test object (2) type of test object (3) brightness of gen et al illumnation (4) contrast between object and background (5) time of exposure of object and (6) wave length of light used

For calculation of the size of retinal images and visual angles the following method was used Let vequal the distance of the object from the first focal point y the size of the object y the size of the retinal image wf the angle in radians subtended by the object at the first nodal point and by the image at the second nodal point and F the refractive power of the eje (§§ 64D for Gullstrand s

schematic eye) Then
$$y \left(\mathbf{F} - \mathbf{x} = \mathbf{y} = \mathbf{w} \mathbf{f} \text{ and } \mathbf{y} = \frac{\mathbf{v}}{\sqrt{(\mathbf{F} - \mathbf{x}^2)}}$$
 approximately $\frac{\mathbf{y}}{\mathbf{x}\mathbf{F}}$

LESLIE L McCos M D

Peterson R A Iris Prolapse from Corneal Ulcer Treatment by Conjunctival Flap Am J Ophth 2028 x: 979

Prolapse of the iris following cotneal ulcer and perforation is common in China I eferson reports thirty-cight cases Tearly nine of the patients were males The ages ranged from eight to fifty two years In thirteen cases both eyes were involved In four of these there was gonorrhead conjunctivities.

lectures in the University. After an apprentice ship of three and a hall years he accompanied in the ship of three and a hall years he accompanied in the factor to Europe and enrolled as a student under John Hunter the leviding English surgeon and physiologist of the day. In May, 1797 upon the completion of a one year surgical residency in St George s Hospital hewas admitted alicentiate of the Royal College of Surgeons. It then proceeded to Lednburgh where after one year of study he was granted the degree of Doctor of Medicine He returned to Philadelphia in the fall of that year. In 1794 he became one of the surgeons of the Pennsylvansua Hospital and in 159 was elected Professor of Surgery in the University of Penn Sylvania In 1867 his nephew John Syng Dorsey,

was made his adjunct in the Department of Surgery. He was an impressive lecturer usually reading his lectures from manuscripts or using copious notes. In 1810 he resigned the char of

surgery and was transferred to that of automy For more than a third of a century Physick was the surgical mentor of thousands of students and his surgical teaching wheld, sistemunted through pupils and through Dorsey's Elements pointed the way to greatly improved sugral practice. Probably no surgical teacher in mema everused so wide an influence as did Physick. He brought to America the surgery of John Hawitt and has deservedly received the appellation." The Father of American Surgery.

The treatment is simple enucleation unless the inmer has extended beyond the globe when even teration of the orbit followed by radium and \ ray therapy is necessary

The author reports six cases and draws the follow ing conclusions r Blind painful disfiguring eyes should be enu

cleated as malignancy is occasionally present in such eves though not demonstrable

2 Routine examination of the funditis very neces sary as sarcomata are sometimes found in apparently normal eves

3 Careful notes of reneated observations of sus picious pigmented deposits in the choroid are of im portance

4 Early choroid sarcomata simulate exudative choroiditis

5 Early diagnosis and prompt radical eradication are essential Lestre L. McCov. M.D.

Lamb F W The Diagnostic and Prognostic Sig nificance of Retinal Hæmorrhage Ohio State M J 1928 XXIV 940

Retinal hamorrhages may occur in any of the layers of the retina Their anatomical location is an important factor in the prognosis as to vision

Except in cases of obstruction or injury the primary cause of retinal hæmorrhage is disease of the blood vessel walls Retinal hæmorrhages occur most commonly in nephritis associated with neuro retinitis When there is a well developed retinitis the prognosis as to life is poor

In arteriosclerosis retinal hemorrhage is common and indicates that the blood vessel walls are con siderably weakened and that apoplexy is impending

In diabetes retinal hamorrhages are usually round and punctate and occur near the macula The prognosis for life is better than in albuminuric retinitis

In leukæmia the hæmorrhages usually occur in the fiber layer and near the periphery and have a white spot in the center The prognosis is poor for vision and life

Hæmorrhages seen in the retina in a case of anamia point to the diagnosis of pernicious anamia In thrombosis of the central retinal vein hæmor thages are exceedingly numerous

When the diagnosis of choked disk is uncertain a hamorrhage at the margin of the disk eliminates

the doubt Retinal hæmorrhages occur in from 30 to 40 per

cent of newborn infants In such cases they usually become absorbed without loss of vision An aid in the diagnosis and study of retinal ham orchages is the use of the red free light in the oph

thalmoscopic examination Lyman 1 Corps M D Mengel W G Retinal Disease with Massive Exudation Report of a Case J Med Soc \ Jersey 1928 VXV 788

The case reported was that of a boy six and a half years old who was first seen by the author after

vision in the right eye had been failing for a year There was no history of trauma or previous in flammation. The findings of a general physical examination suggested the presence of pulmonary tuberculosis and infection of the right maxillary On ophthalmoscopic examination the vitreous was found filled with dust like opacities the nerve head was indistinct and an immense opaque dense yellowish white mass encircling the macula and crossed by retinal vessels was seen. The sur face of the mass was elevated and had a mottled cumulus cloud appearance Its margins merged into the surrounding retina and areas of patches were seen in different parts of the fundus chiefly along large vessels. No hamorrhages were visible

Eight months later the opaque mass was larger and extended along the larger retinal vessels. In the nasal quadrant the retina was detached. The blood

vessels were enlarged and tortuous

Nine months later the vessel changes were still more marked coils of small vessels were more dis tinct the dilatations of the terminal branches of the superior temporal vein were larger and more numerous and the white mass was larger

A month later enucleation was performed be cause of secondary glaucoma

Microscopical examination showed marked dis organization of the retina and areas of newly formed fibrous tissue masses located chiefly in the nuclear layers. The neurogliar tissue was proliferated. Some of the larger vessels, especially the veins were enormously dilated and the walls of the vessels particularly those of the smaller arteries showed marked disease changes some of them pre senting aneurismal dilatations

The vascular changes resembled those described by Coats and the miliary aneurisms described by LYMAN A COPPS M D Leber

EAR

Mayer O The Pathology of Otosclerosis I La 3ngol & Otal 1928 xhii 843

The author states that areas of otosclerosis are to be regarded as hyperplasias. This view is based not only on the histological appearance of the foci but also on their multiplicity and typical and symmetrical localization the presence of minute islands of atypical tissue (constituting the points of origin in these areas) the simultaneous presence of mal developments in the inner ear and other parts of the auditory organ the general hyperplasia of the temporal bone the association of the condition with blue sclerotics and osteopsathy rosis Paget's disease and neurofibroma of the eighth nerve and the hereditary character of the otosclerosis

JAMES C BRASWELL M D Portmann G Vasomotor Affections of the Inter

nal Ear J Laryngol & Otol 1928 xhii 860 The author states that the angiospasmodic syn drome of the labyrinth includes (1) tinnitus (2) Three patients were syphilitic and nineteen showed poor general nutrition. In thirty six cases the lesion was located in the upper half of the cornea

The prolapse varied from 2 to 10 mm in diam eter The pre operative treatment consisted in meas ures to clear up the conjunctival inflammation Trachoma was not regarded as a contra indication to operation unless it was active Lachrymal drain age was investigated For several days preceding the operation silver nitrate and atropin in 1 per cent solutions were used routinely. In all except the cases of the younger patients the operation was done under local anasthesia 1 large conjunctival flap was made and two mattress sutures were introduced into it. The prolapsed iris was then excised and the sutures were tied. On completion of the operation atropine sulphate and one of the solutions of silver proteid were instilled a firm dressing was applied over both eyes and the patient was kept in bed for a day

Kuhnt s pedunculated flaps were found unsatis factory as were also single sutures

The minimal time it was necessary to keep the flag in position to secure good results was six days. The sutures were removed on the soventh day and the patient was allowed to open the eves on the eighth day. Opical indectomy was done after the second week. The false ptersymm remaining after second week. The false ptersymm remaining after the condition of the second week and the secon

In twenty eight cases in which a good operative result was obtained there was definite improvement of vision ranging from 20/200 to 20/20

Mills L. Modern Cataract Surgery J Am W 1ss

LESLIE L McCoy M D

1918 xci 19 9
Mills discusses postoperative iritis and prolapse of
the iris

Postoperative tritis is of four types (1) traumatic titis (2) endophthalmia phaco anaphylactica (3) endogenous tritis and (4) exogenous tritis

Traumatic inits is caused by rough or excessive manupulation of the tissues irritation from hard fragments of lens remaining in the eye tissue inclusions in the wound due to poor operative technique pressate and drag on the incarcerated institusue and a drag on the intact inis by hernation of the vitreous

unto the anterior chamber Endophilaming place anaphylactica may be pretendephilaming place anaphylactica may be prevented by careful expression and irrigation of loselens cortex and in some cases by irrigation of the
anterior chambe with warm half normal salme solution (Pesse), which gives definition to the fens substance that oth tress is not visible. Mills states that in his taper enter irrigation has never been followed.

by ritts
Endogenous ireits develops from one to several
weeks after any form of cataract operation as the
result of unrecognized focal or systemic disease such
as dental abscesses and intestinal infections

Exogenous tritis is due to infection of the tear sac and bacterial invasion by way of tissue incarrented in the wound

Prolapse of the rist may be primary or scenario. Primary prolapse is due to prologoid fature of the globe and iris following the lands though the indision. Secondary prolapse is caused for fraum due to awknard operative manupalatons reasons pressure too small an incision the pressure of defect three directings meddlesome and to early impection of the nound strains and assaults during coart feecence defective incussions delay of beining and

the omission of indections. Until recently the treatment of the incisse in catarical surgery has been out of line with the treat ment of other presumably clean operative weak, i.e. itill suiture of the wound to prevent indections are restore the normal relations. Failure to sature the operative wounds of the eyes has been the definingle cause of indections from whithout and dark angle cause of indections from whithout and dark angle cause of indections from whithout and dark cations may be as odded by converige become after the cations may be as odded by converige the most of any of the selection of the prevention of the selection of the selection wound and fating it with about five interrupted sutures placed with regard to the peculiarities of the wound. Lister L. Victo MB

Greear J N Jr Sarcoma of the Chorold Imper W Worth 1928 h 633

The most common malignant intra ocular timer

is sarcoma of the choroid. The development of this neoplasm shows the following four stages

I An early stage which may or may not be ac companied by detachment of the return or distubance of vision A glaucomatous stage in which the eventually

assumes the appearance of acute congestive or abse-

3 A stage at which the tumor has extended be

A stage at which metastatic rodules a lorged in the internal organs most frequently the liver lears usually pass before the sarcoma has run its

Years usually pass before the sarcoma has run to course although its growth becomes more rapid in the later stages

In the dugmoss the intra-oculu tension so offen infeance because it is normal or interest of better missingle detachment of the tenha is usually subnormal. Transitiumnation is of great and 1 are fully taken history regarding the view in the step prior to the attack and regarding the conson in the step prior to the attack and regarding the conson affects of the other eye is of impatences for interesting the control of the authority of the author

Sarcoms of the choroid appears between the fifteenth and eight fifth years of age but; most common between the fortieth and suiteth years. Its prognosis is always grave Me'n task are usually formed within a few months after eacher toon but may not cause death until after from five to

ten years

The treatment is simple enucleation unless the tumor has extended beyond the globe when exen teration of the orbit followed by radium and \ ray therapy is necessary The author reports six cases and draws the follow

eyes though not demonstrable 2 Routine examination of the funds is very neces

ing conclusions

cleated as malignancy is occasionally present in such sary as sarcomata are sometimes found in apparently normal eves

Blind painful disfiguring eyes should be enu

3 Careful notes of repeated observations of sus pictous pigmented deposits in the choroid are of im

4 Early choroid sarcomata simulate exudative choroscutis 5 Early diagnosis and prompt radical eradication

are essential LESITE I. McCoy M D

Lamb F W The Diagnostic and Prognostic Sig nificance of Retinal Hæmorrhage Ohio State M J 1918 XXIV 949

Retinal hamorrhages may occur in any of the lavers of the retina Their anatomical location is an important factor in the prognosis as to vision

Except in cases of obstruction or injury the primary cause of retinal hamorrhage is disease of the blood vessel walls Retinal hamorrhages occur most commonly in nephritis associated with neuro retinitis When there is a well developed retinitis the prognosis as to life is poor

In arteriosclerosis retinal hamorrhage is common and indicates that the blood vessel walls are con siderably weakened and that apoplexy is impending In diabetes retinal hæmorrhages are usually round and punctate and occur near the macula The prognosis for life is better than in albuminuric

In leukæmia the hamorrhages usually occur in the fiber layer and near the periphery and have a white spot in the center The prognosis is poor for vision and life

Hamorrhages seen in the retina in a case of anamia point to the diagnosis of pernicious anamia

In thrombosis of the central retinal vein hæmor thages are exceedingly numerous

When the diagnosis of choked disk is uncertain a hemorrhage at the margin of the disk eliminates the doubt

Retinal hamorrhages occur in from 30 to 40 per cent of newborn infants. In such cases they usually become absorbed without loss of vision

An aid in the diagnosis and study of retinal ham orrhages is the use of the red free light in the oph thalmoscopic examination LINEN A COPPS M D

Mengel W G Retinal Disease with Massive Frudation Report of a Case J Med S c \ Jersey 1018 XX1 88

The case reported was that of a boy six and a half tears of who was first seen by the author after

vision in the right eye had been failing for a year There was no history of trauma or previous in flammation The findings of a general physical examination suggested the presence of pulmonary tuberculosis and infection of the right maxillary On onhthalmoscopic examination the vitreous was found filled with dust like opacities the nerve head was indistinct, and an immense onaque dense vellowish white mass encircling the macula and crossed by retinal vessels was seen. The sur face of the mass was elevated and had a mottled cumulus cloud appearance Its margins merged into the surrounding retina and areas of patches were seen in different parts of the fundus chiefly along large vessels. No hamorrhages were visible Eight months later the oneque mass was larger

and extended along the larger retinal vessels. In the nasal quadrant the retina was detached. The blood

vessels were enlarged and tortuous

Nine months later the vessel changes were still more marked coils of small vessels were more dis tinct the dilatations of the terminal branches of the superior temporal vein were larger and more numerous and the white mass was larger

A month later enucleation was performed be

cause of secondary glaucoma

Microscopical examination showed marked di organization of the retina and areas of newly formed fibrous tissue masses located chiefly in the nuclear layers. The neurogliar tissue was proliferated Some of the larger vessels especially the veins were enormously dilated and the walls of the vessels particularly those of the smaller afteries showed marked disease changes ome of them pre senting aneurismal dilatations

The vascular changes resembled those described by Coats and the miliary angurisms described by I eber I YMAN A COPPS M D

EAR

Mayer O The Pathology of Otosclerosis Laryngol & Otol 1028 xlu 843

The author states that areas of otosclerosis are to be regarded as hyperplasias. This view is based not only on the histological appearance of the foci but also on their multiplicity and typical and sym metrical localization the presence of minute islands of atypical tissue (constituting the points of origin in these areas) the simultaneous presence of mal developments in the inner ear and other parts of the auditors organ the general hyperplasia of the temporal bone the association of the condition with blue sclerotics and osteopoathy rosis Paget's disease and neurofibroma of the eighth nerve and the hereditary character of the otosclero is

JAMES C BRASWELL M D

Portmann G Vasomotor Affections of the Inter nal Ear J Laryngol & O'l 1928 zhu 860

The author states that the angiospasmodic syn drome of the labvrinth includes (1) tinnitus (2) dealness (3) vestibular hyperexcitability, and (4) sympathetic hypertonia

In addition to this syndrome of arterial resistance or hypertonicity of the labyranth there is the svn drome of hypotonia or laxity with the classical signs of the sensorial suffering but with vestibular hypoexcitability and sympathetic hypotonia

These two syndromes may alternate with each other Different reactions of the veretative system under the influence of various causes may be noted but as a rule there is a hypertonic or parasympa thetic syndrome which makes it possible to classify the subject as a vagotonic or sympathicotonic. In clinics there are seen fairly often persons in whom the disequilibrium seems to be caused by a global hyperexcitability of the vegetative nervous system This state has been described as neurotonia (Guil laume) total disequilibrium of the whole system (Laignel Lavastine) vegetative dystonia" (Si

However this veg tative distonia may occur in persons who are predominantly vagotonic in others who are predominantly sympathicotonic and in still others in whom hypertonia predominates over the sympathetic at the level of one organ of the body and the parts) mpathetic predominates at the level

card) and amphotonia (Danielopolu)

of anoth r organ

Vagosympathetic disturbances and labyrinthine vascular spasms are due to most diverse causes. The causes may be mechanical endocranial toxic or psychic. The most important factors affecting this regulating apparatus are undoubtedly the action of the nervous system and the action of the endocrine JAMES C BRASWELL M D glands

Poe D L A Study of the Fossa Subarcuata as a Passageway for Infection from the Labyrinth to the Cerebellum 4nn Otol Khinol & La vn gol 1925 XXXVII 1167

In the temporal bone of the adult the fossa sub arcuata is usually obliterated but in some cases it may exist as a small depression lodging a process of the dara mater and in others it may persist in its embryonic state. In the latter instance it is a portal by which infectious organisms from the ear can enter the brain

The author repo ts a c.s. of diffuse labyrinthitis in which the infection entered the brain through several openings in the petrous part of the temporal bone but first and chiefly through the fossa sub JAMES C BRASWELL M D arcuata

NOSE AND SINUSES

Catter W W The Prevention of Nasal Deformities Following the Submucous Operation Otolaryngol 1928 viii 555

Submucous resection is the best method yet de vised to correct a deflected septum with obstruc Certain precautions are neces try to guard against deformities The operation should not be performed before the eighteenth year of age unless the indications are urgent. As the upper edge of the septum is an important part of the pasal arch it must not be dislodged. The free edge of the ous! rangular cartilage is an important vertical support. The septum should be removed by means of punch forceps without traction on the dorsal segment Deformities resulting from this operation are best corrected by a conjoined bone and cartilage graft taken from the patient's ribs Correction may be made also with bone or cartilage alone

The article contains several photographs of cor rected external deformities W M Patov WD

Lederer F L and Livingston G S. Tuberculosis of the Nasal Accessory Sinuses Ann Oil khind & Laryng ! 1928 xxxvu 1176

The authors report a case of tuberculosis of the nasal accessory sinuses arising primarily as a tuber culous osterris of the cramal bones. The patient had complained for a number of years of frontal head aches accompanied by vertigo and nausea. Eventu ally the condition caused epistaxis and sweater of the eyelids followed by blindness. The ocular fundi showed moderate optic neuritis

Rhinoscopic examination revealed enlarged take rior and middle turbinates and a small amount of granulation tissue in the middle meatus. In the roentgenogram a diffuse increase in the density of

the sinuses was noted

It operation the ethmoid and sphenoid were exenterated and tuberculou granulation to see with typical tubercles and giant cells was removed Vision did not return. About three weeks after

the operation a swelling appeared over the glabella and the left supra-orbital ridge When this was in cised pus was found exuding from the frontal u nuses The frontal sinuses were curetted Recovery was good and vision began to return in one eye but the patient left the hospital against orders and re turned about five months later with a latal tuberru GEORGE R McACUITY MD lous menugatis

Lillie H I and Lillie W I The Effect on Certain Syndromes of Chiasmal Tumor Lar ngot N 1928 XXXVIII 761

Disease of the paranasal sinuses may be as equited with chiasmal tumor and cause disturbances of vision not typically characteristic of e ther condit of Surgical treatment of disease of these sin ses should be instituted before the intracranial operation [] chiasmal tumor

The ophthal nological vndrome of chiasmal tumor is characteristic and constant whereas that of d. ease

of the paranasal sinuses is not

The rhinological manifestations of disease of the paranasal sinuses are not always characteristic and the relative importance of such disease so far as the ual disturbances are concerned is difficult to eval unte The incidence of visual disturbance in frank disease of the paranasal sinuses is extremely low

The patient should be observed for a sufficient length of time for a satisfactory diagnosis to be made

and in the study of the condition the ophthalmologist neurologist and rhinologist should cooperate

Pfahler G E Roentgenological Signs Which Indicate Extension of Infection from the Ethmold and Sphenoid Sinuses to the Base of the Skull Arch Otoloryngol 1928 vut 638

The study of infections of the ethmoid and sphe and sinuses requires a roentgenogram of the base of the skull. The roentgenological signs of deep peri sinusitis or changes incident to chronic ethmoid sphenoid sinusitis consist in a cloudiness with a vague shading off of the anatomical details thicken ing of the posterior and lateral wall of the sphenoid and ethmoid sinuses and an area of increased density which indicates ostertis of the surrounding bone

This perisinusitis commonly extends into the middle fossa of the skull but may involve also the petrous and mastord portions of the temporal bones and even the posterior fossa. In some cases it is general and involves the base of the skull but in others is confined to the side in which there is a deep sinusitis Therefore the conclusion may be drawn that it is an extension of the inflammation directly from the affected sinus The author suggests that an effect on the sella turcica resulting from an extension of the inflammatory process may account for unex plained anomalies which have been observed by roentgenologists for many years

ADOLDII HARTUNG M D

Watson Williams P ison Williams P Optic Neuritis Following Sphenoidal Sinusitis Located by the Different tial Exploratory Test Brit M J 1928 II 1030

Definite optic neuritis with contraction of the visual fields has been known to result from chronic sphenorial sinusitis. The saving of sight depends Won drainage and disinfection of the infected sinus When the sinus is normal anatomically its drainage is not difficult but when it is irregularly formed as when one sphenoidal sinus is relatively large and the other is relatively small the infected sinus may be

entirely missed The author reports a case in which the ocular disturbance began with iritis in the right eye. Later the left eye became involved and a diagnosis of optic heuritis was made At this time there was no nasal discharge and the nasal passages were negative On en Jorhino copy the minute vessels at the arch of the choana were found to be injected Explora tion of the sinuses revealed pus in the left antrum The right antrum was sterile The sphenoidal sinus which was entered through the right nasal bassage contained blood but no organisms differential test demonstrated that the cannula in the right si le of the nose and the cannula in the left tide were both in the right sphenoidal sinus. The small left spheno: Ial sinus was opened and mucopus has evacuated Dramage was established through the nose

Three weeks after the sinus operation the vision had improved and the optic neuritis was less marked

Three months later all evidence of injection of the retinal vessels had disappeared WILLIAM I PICKETT M D

PHARYNX

Righy O C Intramuscular Injections of Bismuth a Specific Treatment for Vincent's Angina Tri State Med J 1928 1 47

As infection with the spirochæte of syphilis re sponds to treatment with arsenicals and also to in sections of bismuth it occurred to the author that bismuth might be equally effective against the

spirochate of Vincent's apgina

He first made a local application of 10 per cent acid tartobismuthate of potassium. The result was good In December 19 6 he first injected o 02 gm of potassium bismuth tartrate with butyn The in jection was followed by permanent relief of the symptoms. The membrane disappeared and the smears became negative after twenty four hours

Right reports sixteen other cases with good results. In all the smears were positive before the treatment and the symptoms ceased and the smears became negative within from twenty four to forty eight hours after the injection. The injection was made into the gluteal muscle. No local treatment

was given The author states that a number of other physi cians have had equally good results from this treat ment no failures being reported. The throat lesions apparently respond more satisfactorily than the in fection of the gums CHARLES W FREEMAN M D

NECK

Chesney A M Clawson T A and Webster B Endemic Golter in Rabbits I Incidence and Characteristics Bill Johns Hopkins Hosp Balt

1028 thu 261 Webster B Clawson T A and Chesney A M

Endemic Coiter in Rabbits II Heat Produc tion in Goitrous and Non Goitrous Animals Bill Johns Hopkins Hosp Lalt 1928 xlui 278
Webster B and Chesney A M Endemic Goiter in Rabbits III The Effect of the Administra tion of lodine Bull Johns Hopkins Hosp Balt 2025 XIII 201

CHESNEY CLAWSON and WEBSTER In the course of experimental work on syphilis which was carried out on rabbits the development of goiter was noted in 486 of the animals

Brown I carce and Van Allen in studying a series of 645 apparently normal rabbits found the maximum weight of the thyroid gland to be 1 71 gm Marine has never ob erved a rabbit thi roid weighing more than 2 gm even in animals obtained from gostrous regions. In the authors animals the gland often weighed considerably more than the maximum reported by other investigators. The maximum weight was 43 gm \ecrops\ was performed on most of the rabbits within two hundred days after they were acquired

There was nothing in the breed of the animals their housing or their diet which could have influ enced the production of goiter. The goiters were easily recognized by palpation and the progressive enlargement could be followed clinically. The mi croscopic appearance of the enlarged glands was on the whole uniform presenting hyperplasia with little or no tendency toward colloid formation. It was evident that the increase in the size of the gland had been brought about by the formation of many new follicles or an extension of those already in existence The epithelium was columnar in type and in many of the sections the follicles were ill defined or absent being filled by the proliferation of epithelial cells However there were no in foldings such as have been seen in exophthalmic guiter in man

In many of the animals with enlargement of the

theroid the suprarenal plands were also enlarged. The authors state that the essential cause of the development of the gotter has not vet been discovered. Although most of the animals had been used for the study of experimental syphilis it was possible to demonstrate that syphilite infection was not essential to the development of the condition in many instances the enlirgement of the thyroid was progressive and the animal subsequently died was progressive and the animal subsequently died the extreme loss of weight was striking. Neither the behavior of the animals nor the microscopic appear ance of the elands warranted the conclusion that the

condition was similar to Graves disease in man WEBSTER CLAWSON and CHESVEY The produc

tion of heat was studied in 96 normal and 45

gostrous rabbits

In the normal rabbits the average metabolic
rate was found to be 2 64 calories per kilogram per
hoar Variations in body weight occurred without
appreciably altering the basal rate

In the gottrous rabbits the average heat production was 16 6 per cert lower than in the normal rabbits. The rabbits with the largest goiters showed the greatest depression in the metabolic rate.

The heat production in the individual gostrous rabbits was practically constant over a period of one year provided there was no great change in the size

year provided there was no great change in the size of the gland Certain animals which died and for whose death

occau e could be found showed an average increase of approximately 20 per cent in their metabolic rate during a period within two weeks of death

W. EMPER and CHESNEY When indice was administered to rabbits with gotter the animals immediately became more alert and active the metabolic rate reproduction increased. The behavior of the het, production increased. The behavior of the het, production increased. The behavior of the second in the system in normal rabbust the administration of an excess of under caused a temporary lonering of the metabolic rate and in the hyperoliginal of diffuse outpouring of follood with fluitening of the alcolor republishing.

The severity of the reaction in the gottron ribbits bore a direct relationship to the retriet of the hyperplasm. The roduce tended to migration notation of the hyperplasm transmission and the first produce tender of the hyperplasm transmission and the hyperplasm transmission of colloid adenomata were observed but both these and localized areas of persuated hyperplasm content these resembling respectively the so-called military and small encapsulated adenomata.

R V B SREER VID

Else J E The Prevention of Recurrent Golter Surg Clin \ Am., 19 9 via 1375

Elie states that he has recently been seeing more recurrences following operation for griet has former! The reason he believes is that nost gouter operations are not being done be surgious especially. Itaniel in gouter surgery. He states that recurrence can usually be prevented by (1) cardial pre-operative examination (2) early operation before permanent lessons have been produced (1) couples operation and (4) saturation of the thyroi with notine before and after operation.

JACOS M MORE MD

Final N S and Harmer D Radium Treatment of Intrinsic Carcinoma of the Laryax Bol M J 1928 tt 886

After fifteen years experience the authors have come to the conclusion that radium should be band in the tissue, whenever possible. They rever fifteen cases of carrinoma of the layur in thinter of which the diagnosis was confirred by acroscopic exampation.

The operation advocated closely te-embles that of Bayet in which a large window is made in the th) rold cartilage the framewo L left consets of the four margins The outer surface of the growth covered by the perichordrium is exposed and from five to ten platinum midium radium needles are inserted parallel with one another and sertical These needles do not penetrate into the growth of into the larvax When the growth is subglottic the needles may occas onally perforate the a r passage Great care is taken to prevent sepsis. Linea threads soaked in a 1 1 000 solution of flavine are attached to the needles tied together and buned beneath The wound I closed with double the muscles sutures every other one of which is ted and the re mainder of which are left untied until after removal of the radium The incision is completely sealed with collodion. The other side is treated in the same way if it is involved by the growth A low tracheotopy is performed last to prevent infection of the larynges

wound

The needles are left in place for from four and a
half to eight days. Following the removal of the
needles the wound is thoroughly strigated with
peroxide or flast ine and then completely closed und
not be present.

The reaction is rather severe and as ociated with ordernatous swelling and inflammation. Frequently all signs of the growth have disappeared at the end

New G B

Goner & Obst 1028 tlyn 826

of six weeks the cords remaining symmetrically and equally movable. At this time the tracheotomy tube may usually be removed. The applicators used are platinum needles 1 or 2 cm long with a wall thickness of o cmm containing o cor 10 mgm of radium. Ordinarily eight needles containing 7 mgm have been used for six or seven days. One third of the cases reviewed received heavily filtered \ ray or graduation two or three days before operation. If it is true that lethal doses delivered to parts of a tumor in the render the remainder of the growth more susceptible to moderate doses of irradiation radium needles or seeds may produce better effects than homogeneous irradiation of the tumor Lighter dos age with less danger of sepsis is superior to heavier dosage

Of the fifteen cases reviewed eight were in the early stages five were in the advanced stages and two were inoperable. In six of the eight early cases the growths entirely disappeared and the patients remained well for periods of from one to three years Of the five patients with advanced cancer one re mained cured for four years one developed a re currence in the tracheotomy wound a year later and died eight months later one developed stenosis and died of recurrence twenty one months later and one died of chloroform poisoning before the opera tion was completed Of the two patients whose condition was inoperable having extended into the pharynx or the neck one remained well for two and one half years and then developed a recurrence and the other died after fifteen months probably of metastases

The authors state that the results are encouraging and that it is quite possible that radium irradiation may prove to be the best method of treating in timuse carcinoma of the larynx. A high incidence of cure can be expected in early cases in which the disease is of sound to be strictly localized to the vocal cont.

The results are far superior to those obtained by operation since the voice was completely real-real size of eight cases and the largran did not seem to be weakend in any way. There is no doubt that in advanced cases radium should always be trued before laringectomy. If the disease is not completely eradicated within three months the radium trainment should be repeated or an operation per found. In inoperable cases, prolongation of the may be obtained by the methods described.

A JAMES LARAIN M D

If it becomes necessary to remove the larvax be cause of a malignant growth it is of first importance to remove the growth completely and to guard the patient against reaction. The result should be a tracheal opening which does not require the use of a After the old two stage operation of Crile the patient was usually obliged to wear a trache otomy tube. The one stage operation of MacKenty, while overcoming this disadvantage and being tech nically more simple requires a great deal of post operative care from the surgeon and nurse two stage operation now used by New seems to com bine the advantages of both of these operations without the disadvantages of constant close post operative care drainage tubes and many irrigations required by the one stage operation and the tracheal stricture following the old two stage operation During the three year period from 1925 to 1927

A Two Stage Laryngectomy Sure

inclusive 172 patients suffering from carenoma of the lary fix were examined in the Mayo Clime and 64 of them were operated upon. In 17 instances thyrotomy and excision were done and in 41 lary spectomy was performed. This group included certain cases of extrinsic lesions but not the epifort to or postericoid lesions in which lateral phary gotomy according to the method of Trotter might be performed. There were 5 explorations. Biopsy was done the day previous to the operation in all cases in which lary agreemy was to be performed.

The points of interest in this method of larvn gectomy are (1) the use of local infiltration anasthe sia for the first stage (2) the median line incision and splitting of the hvoid bone (3) the formation of a barrier to infection by means of a clean wound (a) the opening of the traches later to infect the wound and allow the patient to immunize himself and become accustomed to the opening (s) the performance of the second stage of the operation under paravertebral anæsthesia and infiltration of the pharvnx about eight days after the first stage (6) the complete primary closure of the wound of the neck without the usual drains or tubes, the solit tube being inserted below the tracheal opening (7) the application of gauze rolls laterally on the neck with pressure to eliminate the space previously occupied by the lary nx and to support the phary nx and (8) the primary healing of the greater part of the wound of the neck and a tracheal opening with out the use of a cannula in practically all cases

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Ingvar S Studies in Neurology II On Gerebellar Function Bull Johns Hopkins Hosp Balt 1928

In the author's opinion the cerebellum regulates mu cular tension in the body masses in all motor activities and neutralizes the forces of gravity and mertia acting on the different parts of the body masses in a physical sense. It is an organ of regula tion for static and postural tone or in a broader sense, of equilibrium This theory is strongly supported by its vestibular connections and its known vestibular functions. In cerebellar ataxia the impaired limbs behave more or less like dead attach ments to the body showing that in cerebellar disease the faculty of neutralizing the forces of gravity and mertia is lost 'lecordingly the different aspects of cerebellar ataxia may be expressions of a disturb ance of a fundamental function

Spinocerebellar fibers end in the anterior and posterior lobes in limited areas. By stimulation of these areas inhibition of the extensors of the ex tremuties can be elicited Physiological and ana tomical facts constitute the most important evidence of localization of cerebellar function. The author cites cases which indicate that the leg center is in the posterior portion and the arm center in the anterior portion of the homolateral lobe

CILBERT C ANDERSON M D

Naffziger H C and Jones O W Late Traumatic Apoplexy California & Best Med 1028 xxix 161

I ate traumatic apoplety was first described by Bollinger in 1801 According to Bollinger's by pothesis regarding the condition an injury of the head is followed by degenerative changes soften ing and necrosis in the brain stem and to a lesser extent in the cerebrum which in turn are followed by alterations in the walls of the blood vessels leading to secondary hemorrhages from decreased resist ance around the vessels and increased arterial pres sure and death from one to eight neeks after the mjury

The possibility of the occurrence of late bringr rhage is now g nerally recognized but the relation ship of trauma to vascular changes and of late harm orthages to trauma is as yet undetermined. It is generally believed however that there is a definite relationship between trauma and late central brain bleeding

The term late transmatic apoplex, has been an plied to a variets of conditions such as middle men ingeal hamorrhage and subdural hamorrhage fol

lowing a latent period thrombosis of a vessel and hamorrhage occurring years after mura These types of conditions do not belo the clinical group described by Bollinger which cluded only central brain bleeding especially b ing in the brain stem. More recently dela tral brain bleeding whether in the brain stem cerebrum has been classified a late to apoplexy

The length of the latent period generally ran from one day to eight neeks. When hamonh occurs after eight weeks it is more ant to be other causes. The limitation is of importance for medicolegal purposes

The authors report three cases with marked > larity of symptoms The pathological changes of the same type and located in the ri

in approximately the same area. They differed to in extent and degree

Late central brain bleeding of this type rare complication of head input in accidents. In the cases of elderly working per late intracerebral hamorrhage has usually been sidered spontaneous with resulting injustice to injured person. The authors believe that when lowing a head injury an intracerebral ham occurs in an elderly person with possible changes after a short latent period with or " head symptoms the trauma and the must be considered as directly related

E. S. PLATT M

McLean A J The Transbuccal Approach to Encephalon tan Surg., 1928 laxx 111 95

An improved experimental technique i for the transbuccal approach to the entue ventral surface of the diencephalon mesercept metencephalon and myelencephalon Despite vascularity of the basillar fos a the operation practically bloodless By the procedure d. the second fifth sixth and twelith u nerves have been cut at their source under d vision without damage to closely contiguous tures and many hypophy sectomies have been d Lateral column nerves of the medulla are readily exposed by a posterior fossa or cerebel. ploration The third and fourth nerve and pretime hypothalamus are more readily approached modified temporal route

Among the chief main advanta es of the t nique described are (1) an anatomically con approach to the base of the brain through a extreme vascularity (2) conservation and approximation of the nasopharvageal teum which interposes an intact phis olomcal a brane as a bar to infection of the meninges (

avoidance by light tamponade of the choanse of postoperative masal discharge which favors infection and (4) anatomical closure of the soft palate in layers which favors healing and prevents improper suilowing due to dehiscence of the palatia wound and associated with danger of postoperative aspiration preumon.

to premiable of the operation is lower than that The mortisty of the operation is lower than that The mortisty described procedure. According to when the mortality of operative approach to the base of the brain as up per cent whereas according to Dandy and Reichert it is 16 per cent. The mort tally of the authors operation is 11 per cent. McLean s last twelve operations the morbidity was negligible and there were no fatalities.

E 5 PLATT M D

Dandy W E Venous Abnormalities and Angio

mata of the Brain Arch Surg 1028 xvn 715
Dandy reports seven cases of venous anomalies of
the brain one case of pleuform angioma seven
cases of cysts with angiomata in the walls and five
cases of cavernous angioma
From these and
similar cases reported by others he draws the foll

lowing conclusions

1 The venous anomalies are of congenital origin
They are manifested clinically by epilepsy and dis
turbances of mentality. They are frequently assocated with other deformities of the brain

2 Pleuform angiomata of the brain resemble

sundar well known lesions in the spinal cord

3. The extincte of a network of venous spaces in
the dura communicating freely with the longitudinal
singular may be a cause of local epilepsy beginning in
the arm of leg. The constant location of this network
suggests that it is probably the congenital remains
of an embry once dural circulation.

4 Angiomatous cysts occur throughout the brain but are most common in the cerebellium. The use of the tumor embedded in the wall of the cyst relatively, insignificant. Intercannal pressure the post spatial because of the cyst formation and the post spatial because of the cyst formation and the post spatial because of the cyst formation and the post spatial because of the cyst formation the cyst spatial because of the cyst supplies are usually, but one post spatial consistency among the differentiated dinically from other types of cysts of the brain of the cyst of cysts of the brain of cysts of the cyst cysts cysts

5 Cavenous angomata var: in their gross preparance. They are scattered throughout the brain but seem to occur with effect grounds are the footgonarchail repon. The predominant sign of this type of tumor is jacksoman epilepsy with or without transcent or permanent motor weakness Iresure as improons develop if the tumor is situated earthe ventroduct channels or outlets. The typical tumors begin early in life and grow slowly. The Jimpions persust for many years. At times a Plipmions persust for many years.

clinical diagnosis can be made
6 Hamorthage from the tumor is a potential
operative danger in all types of angioma

Both cavernous angiomata and angiomatous casts should be treated surgically by complete removal of the solid tumor together with a margin

of contiguous brain tissue. In both types there is a good prospect of complete cure with relatively little operative risk. ERIC OLDBERG M D

Cushing II and Bovie W R Electrosurgery as an Aid to the Removal of Intracranial Tumors Surg Gynec & Obst 1928 alvit 751

In the removal of intracranial tumors Cushing uses a perfected apparatus developed by Bosse who employs currents with a shift of direction of from to 3 000 000 times a second. The apparatus is so arranged that this almost inconceivably rapidly alternating current can be modified to deliver dehydrating cutting or heating effects through a single lead.

single lead.

The many details cited in the article to explain
the difficulties which arose and were intally conquered in the practical application of this method to
quered in the practical application of this method to
Suffice it to save that the principle found most generally useful was the removal of scoops of tissue
from the centre of the tumor by means of a loop of
wire electrode until only a shelf remained and their
removal of tissue alone is not the only useful function
of the apparatus. By means of the congulating cur
rent annoying bleeding suffaces may be dried up
may be effectively scaled by
shooting a dehydrat
ing current along the forceps.

The article contains a report of eleven cases in cluding vascular tumors of the skull meningiomata allomata and acoustic neuromata which were treated by electrosurger. I wo of the patients succumbed to the effects of their disease and one was undoubtedly, the victim of inexperience with the method but the remaining, eight were curred more effectively and more certainly, than experience indicates would have been the case if an other treatment had been used. I also M Daying TV 11.

Cordes E Osteoplastic Endothelioma of the Dura (Das osteoplastische Indotheliom der Dura) Mitt a d Grengb d Med u Chr 1028 xli 32

Woman forty two years old became ill with my amount of the delivery of the new force on the new force of the timer could be removed. Because of the patients we askened condition the dura was not opened. Her the operation reentgen theraps was opened. Her the operation one year later showed complete recovery.

A woman thirty three years old was injured by an iron pole. At first there were no ill effects from the blow but four weeks later a swelling developed over the right ear. The neof lasm grew slowly and three years later caused severe headache. At examination

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Ingvar S Studies in Neurology II On Gerebellar Function Bull Johns Hopkins Hosp Balt 1928 xbn 338

In the author's opinion the cerebellum regulies muscular tension in the body mas es in all motor activities and neutralizes the forces of gravit, and inertia acting on the different parts of the body masses in a physical sense. It is an organ of regula into fios static and postural tone or in a broader sense of equilibrium. This theory is strongly supported by 12 vestibular connections and its known vestibular functions. In cerebellar stanta the inspired by the part of the stantage of the part of the stantage of cerebellar stantage of the stantage of t

Spinocertibellar fibers and in the antenor and posterior lobes in limited least. By simulation of these areas inhibition of the extension of the attention of the extension of the attention can be elected. By slopping and an atomical facts constitute the most important exidence of localization of cerebellar function. The authorities cases which indicate that the leg center is in the posterior proton and the area center in the authorities.

portion of the homolateral lobe

GILBERT C ANDERSON M D

Naffziger II C. and Jones O W. Late Traumatic

Late traumatir apoplers was first described by Bollunger in 180; According to Bollingers is pothesis regarding the condition an anjury of the bead is followed by degenerative changes softening and necrosis in the brain stem and to a lesser extent in the creebrum which in turn are followed by alterations in the walls of the blood conditions of the state of the condition of the c

The possibility of the occurrence of late harmor thage a now generally recognized but the relation ship of trauma to vascular changes and of late hem orrhages to trauma is as yet undetermined fix generally believed however that there is a definite relationship between traums and late central brain bleeding

The term late traumatic apoplexy has been ap plied to a variety of conditions such as middle men ingeal hamorrhage and subdural hamorrhage fol lowing a latent period thromboss of a corcular vessel and harmorrange occurring period in the anjury. These types of conditions do not belong a nipury. These types of conditions do not belong to cluded only central brain blerding especially what as cluded only central brain blerding especially who are not been seen to be the period of the unique of the period of the period of the trail brain blerding whether in the brain stem of the cerebrum has been classified as late trainsite

apoplexy

The length of the latent period generally rings
from one day to eight weeks. When hamorings
occurs after eight weeks it is more upt to be due to
other causes. The limitation is of importance manly

for medicolegal purposes

The authors report three cases with marked simlantly of symptoms. The pathological charges were of the same type and located in the right hem plane in approximately the same area. They differed only

in extent and degree

Late central brain bleeding of this type a not a rare complication of head injury in conjectable accidents. In the cases of elderly working petror late intracerchical harmortage has smally been as safetied spontaneous with resulting mostice to be more of the conference of the confe

E S PLATE MD

VicLean A J The Transbuccal Approach to the Encephalon Inn Strg 1928 laxs ut 980

An improved experimental technique is priected for the transbuccal approach to the entire medicine the transbuccal approach to the entire medicine that the surface path of the developability of the basiliar fosser th operational by path to associate the vascularity of the basiliar fosser the operational by particularity bloodies. By the procedure discredible nerves have been out at their porture under merves have been out at their power under vision without damage to closely configured due to the control of the configuration of the third and four the reversal approached by a modified temporal route.

Among the chief main advantages of the test inque described are (i) an anatomically controlled approach to the base of the brain through a field approach to the base of the brain through a field a extreme vascularity (a) conservation and exact reapproximation of the anapproximation of the meaning anatomic team which interposes an intext physiological monopring as a first to infection of the meanings (j) the

basal regions and therefore first attack the more ex posed marginal fibers situated in those regions the This explanation holds oundlemotor pathways also for the common and early appearance of ptosis and can readily explain the slowly developing and saned changes in the pupils which often precede complete rigidity. Such changes reflect the proc esses in the basal subarachnoid spaces along the cotic pathways The Argyll Robertson phenomenon rarely occurs in the absence of a luetic cause but when it does the hypothesis suggested by the anthor offers an explanation

GILBERT C ANDERSON M D

SPINAL CORD AND ITS COVERINGS

Stockey B Tumors of the Spinal Cord in Child hood Am J Dis Child 1928 XXXVI 1184

Of 165 tumors of the spinal cord for which oper ation was performed at the Neurological Institute New Lord in the period from 1910 to 1926 8 oc curred in children twelve years of age or under Six of the 8 spinal cord tumors in children were operated spon since 1922 The increase in the number of such tumors found in children in recent years is stimbuted by the author to improvement in the diagnosis due mainly to special tests such as the lumbar manometric examination of the spinal fluid

The postmortem statistics of Schlesinger indicate that neoplasms of the spinal cord are not so rare in child en as appears from the literature In 251 collected cases of spinal cord tumor Schlesinger found 33 in which the neoplasm developed before the age of nine years and twenty seven in which it developed between the ages of ten and fifteen years

More careful neurological examination and the use of the special tests will allow the recognition of a greater number of spinal cord tumors in children during life As the neurological signs are frequently vague the special tests are of great importance In some cases of tumor of the spinal cord in children the condition has been treated as a birth injury and

in others as an obscure disease of the cord The tumors reviewed by the author are classified into 3 groups (1) extradural neoplasms mainly within the verteb al canal (2) intradural neoplasms and (3) paravertebral tumors which had invaded the vertebral canal Tumors of the third group do not properly belong with tumors of the spinal cord and

do not present any difficulty in diagnosis There were no tumors from either the meninges or the nerve roots although in the adult the arach noid fibroblastoma and permeural fibroma are the

most common types of cord tumors The average ages of the children with primary extradural sarcoma and fibrosarcoma was nine and two-tenths years while that of the children with tamors arising outside the vertebral canal and in

vading it secondarily was three years. The ages of the children with intramedullary tumors aver aged eleven years. In the cases of intramedullary tumor the average duration of the symptoms was

four and six tenths years (greatly increased by the presence of symptoms in I case for eleven years) in the cases of extradural tumor twenty one weeks and in the cases of parayertebral tumor ten months

In 1 of the 3 cases of intramedullary tumor the presenting symptom was pain in the lower back radiating from both shoulders and followed by weak ness of the right arm In another it was weakness of both legs followed by pain in the neck and the lumbar region. In the third it was tilting of the head toward the right and dragging of the right Variability in the presenting symptoms is common in cases of neonlasm of the spinal cord even when the same segment is involved as the long fiber tracts are so compactly arranged that the slightest variation in the compression may involve an entirely different tract

In all of the a cases of extradural tumor the pre senting sign was weakness of the legs the ventro lateral position of the tumor causing pressure on the pyramidal tracts and the ventral motor columns In all there were also marked pyramidal tract signs such as patellar and ankle clonus Babinski's reflex and absence of the abdominal reflexes. In I case in spite of the pyramidal signs and double ankle clonus there was marked flaccidity of both lower limbs which is usually indicative of severe pressure and a noor prognosis but recovery was as rapid as is usual in cases with spasticity

In cases of intramedullary tumor the sensory changes are likely to be more marked in the derma tomes supplied by the segments at the level of the tumor than in the more distal dermatomes. The dorsal and ventral muscular masses and their im mediate connections are also involved. It is there fore common to see marked sensory changes at the level of the lesion with atrophy and fibrillation of the muscles supplied by the segments involved

Two of the cases of extradural tumor showed a definite sensory level but in the third there were no sensors changes until a week before operation and no sensory level appeared even after lumbar nunc ture The position of the tumor in this case was determined from atrophy in the left shoulder pirdle and the extensors of the wrist and finge s None of the nationts with an extradural tumor complained of pain Pain of long duration referred constantly to or 2 segments may indicate that the tumor arises from a nerve root but pain referable to one side of the body or the greater part of an extremity is not uncommonly due to pressure on the spinothalamic tracts The importance of regional scoliosis and en largement of the vertebral canal in cases of tumor of the spinal cord has been emphasized by the author in a previous article

When the lesson is above the sacral segments bladder and rectal incontinence usually indicates severe compression of the cord

A sign of importance in the diagnosis is exaggera tion of the symptoms following withdrawal of the spinal fluid by lumbar puncture which allows the tumor to exert direct pressure on the cord Lumbar

three years after the accident a hemispherical swell ing which was not sensitive to pressure and not fixed to the skin was found in the right temporal region In the roentgenogram there was a diffuse shadow with a circular transparent zone around the edge The tumor was chiselled out and removed with a piece of attached dura Because of the nationt's collapse plastic covering of the wound was not possible After the operation the patient had an attack of epileost Tuo years later she was well Examination of the specimen showed a bony exos tosis and an endothelioma which had affected mainly the dura but had involved also the lymph tracts of the thickened bone as far as the periosteum. The thickened bone showed in its center an area of apparently normal structure from which the growth had proliferated radially both internally and externally

In the author's opinion the point of origin of these tumors was the dura where the heavest tumor mass in the form of a flat plate was found. From here the tumor developed along the Jumph tracts of the haversian canals to the surface of the skull and then spread out in a tim layer. There was no tendency toward inflictation of the gales or the brain the bown tissue. As a result of the inflictation, of the bone tissue there was an irritation of the bone substance which led to hypercutory.

Because of their infiltrative growth endothelio mata are to be classed with malignant tumors. However their malignancy is relatively slight as is evident from the fact that they show hittle tendency to recur even when they are not completely removed. They develop most commonly in the an terior nart of the skull.

In the differential diagnosis the rocatigen demon stration of hyperostosis which usually develops as an endostosis is usually decisive. When hyperosto sis is found the possibility of an intracranial tumor should always be considered even when there are no

brain symptoms

The treatment of choice is operation. In bones with a very nich blood supply, it is best to remove the exostosis gradualls. The growth usually does not extend toward the brain. As a rule the operation in the skull made at operating gives sufficient de compression. Even when the operation is not radical the prognosis is favorable. Ro. Evenue G2.

Gurdjian E S and Williams H W The Surgical Treatment of Intractable Cases of Blepharo spasm J Am M is 928 xc1 2053

The authors report three cases of blepharopsam in which no curse could be determ red for the condution. The first was treated by neurectomy followed by the injection of atchol. In the others the treat ment consisted in the other treatment consisted in the case the case the first case there was complete relief assuing for sur month and the treatment was repeated success fully on the return of the symptoms. In the two

other cases the symptoms were relieved morn pletely but satisfactorily

In open neurectomy it is possible to cut or inject as many or as few of the branches as desired and to avoid the parotial gland and duct. The simple injection is quicker causes no scar and gives relief it is thoroughly done but is less sure and safe. The relief from both procedures is only temporary but the treatment can be easily repeated when pecessary

The author method is preferable to injection of the entire nerve in the stylomastoid foramen as it does not paralyze the whole side of the face and it does not remove the entire nerve supply of the orbit

cularis muscle

Organic blepharospasm is discussed briefly A distinction is made between the true spasmardatic Albert S Charrosp MD

Ingrar S On the Pathogenesis of the Argill Robertson Phenomenon Bull John Repires Host Balt 1928 xks 351

Lettle is known of the pathology at the 1g7 Robertson pupil It occurs in spihula of the news. system particularly cases of takes and paress at a so often a premountory symptom noted years before other manifestations of the condition. Spihule memogatis is shought not to give this signs so the site true so called luetic diseases of takes and practification. The fatter are not elegals associated with a premount of the signs of the si

gitic process

In explanation of the common association of the sign with lues it is not necessary to have recourse to the theory of toric predilection. There is justification for the assumption that the pupillomotor and visual pathways follow each other closely through the optic nerve the chiasm and the optic tract In the posterior part of the diencephalon the pur! lomotor pathway diverges from the v. all tract and at the level of the geniculate bodies it runs in the anterior arm of the quadriger inate body proceed ing along the lateral border toward the midline However it has not been clearly shown how the impulses reach the oculomotor nucleus. The efferer arm of the are is better known. It is fairly certain that certain small cells in th Edinger Bestphal nucleus are centers for the innervation of the musculature of the sphineters

Throughout evolution the optic pathways remain on the surface of the discreptablo Thereior morning and certain research in on comparative anatomy and certain research in on meeting with the posteriors spanial roots we have right to conclude that fine fibers on the surface represent the pupillamontor pathways a condition of the pathogeness of pupillary details and the protection of pathogeness involving the pathways a condition of the pathogeness involving the pathways of the surface of the protection of pathogeness in the marginal regions of the optic system and his has been demonstrated by the author.

The meningesi changes associated with the metalluctic diseases of the brain have a preduction for the

Angelect thinks that after paralysis of the cervculsympathet there is first a dulatation of the vesets followed by hyaline degeneration of the walls and then a contracture of the lumen with subsequentlack of nutrition and resulting atrophy. He believes this proces to be the cause of hemi atrophy of the face. In the opinion of Heilgenthal hemi atrophy of the face is due to a trophy of the fatty

The author reports the three most interesting cases of his series. In one of these the cause of the condition was diagnosed as syringomyclia. This was the case with the Klumpke type of paralysis—paralysis of the inner side of the forearm and of the small mostles of the hand

The author's findings in the cases reviewed and his conclusions are briefly summarized as follows

1 Paralysis of the sympathetic nerve is more fre quent than is indicated in the literature

2 In only one case was the cause of the paralysis determined
3 The difference between the near points of the

two eyes was greater in those with the most complete s)ndrome

4 The average difference between the pupils was

18 mm before the instillation of cocaine and 3 mm afternard
5 The width of the palpebral fissure averaged

3 5 mm less on the affected side
6 There were no visible fundus changes

E S LLATT M D

Buelbring E Malignant Neuroblastoma of the S)mpathetic (Ueber das boesartige Neuroblastom des S)mpathetus) treh f path Anat 1928 ectavui 200

The case reported was that of a four year old be interespect examination at autorpsy showed ade by interespect examination at autorpsy showed and be seed at the developmental stages of the formative cells of the sympathetic viz dense cell clumps with nucles which could hardly be isolated and without lateralized substance and in other places where the cells are several places in the tumor the cells preceded at several places in the tumor the cells preceded at several places in the tumor the cells preceded at several places in the tumor the cells preceded at several places in the substance and in the cells preceded at several places in the substance and in the cells preceded at several places in the substance and in the cells preceded at several places in the substance and in the cells preceded at several places in the substance and in the cells preceded at several places in the substance and in the cells preceded at several places in the substance and in the cells preceded at several places in the substance and in the cells preceded at several places in the substance and in the cells preceded at several places in the substance and in the substance and in the cells preceded at several places in the substance and in the cells preceded at several places in the substance and in the substance and

Braeucker Surgery of the Sympathetic in the Extremities (Linges zur Sympatheuschrurgte an den Extremitaeten) Zentralbi f Chir 1928 lv 831

In a case of excessive so-cating of the hands and feet which had been treated conservatively without success of real sets injection of novocan into the principal peripheral nerves showed the trouble lobe of current origin. It was determined that the central excitation for the left hind ran over the rami communicates from the eight head ran dorsal and the excitation for the right hand ran over the rami communicates from the eight hand ran over the rami communicaties from the secution of the right hand ran over the rami communicaties from the secution.

cervical to the first dorsal Resection of eighth cervical to first dorsal rank communicants on the left side resulted in a complete cure. A few months later a corresponding operation was performed for the feet the rank communicantes from the fourth lumbar to the second ascral being divided. The operation in the cervical months of the cervical control of the complete of the lumbar symmathetic rigin months ago of the lumbar symmathetic rigin months ago.

The author determined also the skin areas belong ing to the individual communicates. He found that the return a communicates is the found that the return and a communicates the found that the return and a portion of the hand and the state of the state of the same sometimens from the eighth or retail supplies the last three fingers and the middle of the palm and the ramus communicans from the first dorsal supplies the ultar part of the hand. The supply in the vasomotor paths also cor responds to these, secretory dermatunes.

By determining the sympathetic dermatomes it is possible to limit operation to the minimum in the treatment of secretory and vasomotor disturbances in the extremities and to cure such conditions by dividing only the rami communicantes belonging to these skin sements.

Rieder W Investigations by Capillary Microscopy in Periarterial Sympathectomy (Capillarmikro skopische Unitersuchungen bei penarteneller Sym pathektomie) irch f kin Chir 1928 cl 136

Capillary microscopy and tests of the capillary reflexes with various stimuli confirm the theory that removal of the so called perarterial tissue has no influence on capillary reflexes. Observations at operation under local amenthesis showed that arteries are not equally sensitive to pain at all sites. There are not equally sensitive to pain at all sites. There ing or by electrical irritation whereas other areas are extraordinarily sensitive to pain.

After resection of the cervical sympathetic or removal of the lowest cervical ganglion there could be observed an increase in the visible capillaries which later disappeared. The circulation was continuous in all of the capillaries. In Ray naud a discuss the spaams and states which were noted before case the spaams and states which were noted before capillary reflex to mechanical irritation was seen capillary reflex to mechanical irritation was a capillary reflex to mechanical irritation was a few and earlier the operation.

MISCELLANEOUS

Nedelmann E. A. Malignant Tumor of the Thymus with Peculiar Metastasis into the Central Nersous System. A Contribution on the Question of Tumor Metastasis by the Cerebro spinal Fluid Route (Zur klunk eines malignen I hymusumors mit eigenartiger Metastasieung ins Australia (2014) (2

A boy three and a half years old became suddenly ill with beadache vomiting and great prostration and when seen by the author on the twelfth day puncture is more likely to change the neurological signs in cases of extramedullary or extradural tumor than in those of intramedullary tumor

In examination of the spinal fluid xanthochromias is not seen unless there is a marked increase in the globuln and total protein content. As the diagnosis of tumor of the spinal cord in now made early xan thochromia is found at the Neurological Institute less frequently today than formet). The attaitement is the section of the cord policy and the section of the se

Extradural sarcoma and fibresarcoma are thought to arise from the pendural tissue within the vertebral canal though at times they appear to invade the canal secondarily. When they are circumscribed and can be completely removed the postop-rative

results are good.

Intramedullary tumors occur most frequently in the cervical region. This suggests a congenital origin similar to that of such defautely congenital lesions as synapomicia which is most common in the lower cervical segments. Extradural tumors though frequent in the cervical region are found most commonly in the thoractic region.

Extradural tumors may cause marked symmetrical compress ion of a number of ner or roots and thereby produce atrophy and segmental sensory disturb ances suggesting an intramedullar, lesion. In all of the 2 cases of extradural tumors reviewed the level of the lesion was determined correctly but in only 1 was the nature of the process diagnosed.

In recent years the staff of the Neurological Institute has attempted to make a pre-operative diagnosis of extradural neoplasm extramedullary intradural neoplasm and intramedullary neoplasm

The operative results have been gratifying espetially in cases of extradural tumors. Even in cases of infiltrating tumors of the intramedullary group improvement has been obtained.

Improvement has been obtained.

In all cases of extradural sarcoma radiat or is given in the hope of preventing recurrence whether or not removal has been apparently complete. No recurrence has developed in the 4 cases reviewed.

When there is doubt as to the diagno is of tumor of the spinal cord an exploratory laminectomy should be performed

I S P ATT M D

PERIPHERAL NERVES

Platt II The Operative Treatment of Traumatic Ulnar Neuritis at the Elbon Surg Grac & Obst 1918 that \$22

For mild forms of ulnat neutrits the author recoming the modelization of the fellow pot as this is defined and the fellow pot as this is decided by the second potential of the second and potential potential pales incomplete and potential potential potential potential potential factor as incorpularly between the nerve and its bed be advocates his operation of anterior transposition of the ulnar nerve. With the patient recumbent the upper arm in placed vertically and the clows and smit and high-lifected. An inverted a skin fly at the 1-red bank. By cutting above the clow broth the internal epicondyle at the clow nor the rule internal epicondyle. The nerve is first freed above and the below in the grower in the whole extent of the wound and is drawn forward over the epicondyle. The level was made for it by dwinding the aponeurose of the rem mon fleeror origin from the epicondyle. The nerve a placed in this guiter and the several ligher are robes.

After the operation the cibou is slung in moderate flexion for ten days and movement of the fingers is encouraged immediately

In over 100 cases the results were most grat fring
Lan M. Daymort M.D.

SYMPATHETIC NERVES

Scarlett H W The Frequency of the Claude Betnard Horner Syndrome 4m J Ophile 19 3, 12 961

The author renews sixteen cases of certical sympathetic nerve lesions producing the Bernard

Horizer syndrome

The most common causes of the conductor are
cervical ribs enlarged cervical glands area. Interdisting lumor tumor of the cervical conductor of the base and appears roots. Fance of the lung and appears of the branchial plears roots. Fance of their cutopopullary is suptoms in three cases of didder undirecting the conduction of the lupera and one case of permany carcinoms of the tupper lube of the lung During the war trainm to the cervical sympthetic.

was common

In all of the cases reviewed enophthalmo pion
and narrowing of the palpebral fissure were presulin one case invests was absent possibly because
there for the dilator muscle of the ins leave the
chospinal center by more than one pathway and

therefore are not always completely involved Hypotony was found in more than one third of the case the ten on averaging 35 mm, less than that of the other eye. He betweente suggests that vascular or muscular changes may be the case of

the hypotony
In the affected eye the near point averaged 3 mn.
less than in the other eye and in all but our carsison was slightly below that of the normal eye in
two cases h terochromia india had been preit
long as the patient could remember A conduct
long also betterct could remember A conduct
longistic in betterchromia is due to trophic and
cervical sympathetic nerve on the ve so the
cervical sympathetic nerve on the ve so
Callbous befores that in infants the page the diagraphic as products that in that is the page the diagraphic as products the some fine agriphic as products the simple conduction.

Hemi atrophy of the face occurred in nine cases unilateral flushing in five and the Klimpke type of

paralisas un one

Angeluces thinks that after paralysis of the cervi cal sympathetic there is first a dilatation of the ves sels followed by hyaline degeneration of the walls and then a contracture of the lumen with subsequent lack of nutrition and resulting atrophy He be lieves this process to be the cause of hemi atrophy of the face. In the opinion of Heiligenthal hemiatrophy of the face is due to atrophy of the fatty

The author reports the three most interesting cases of his series. In one of these the cause of the condition was diagnosed as syringomyelia. This was the case with the Klumpke type of paralysisparalysis of the inner side of the forearm and of the small muscles of the hand

The author's findings in the cases reviewed and his conclusions are briefly summarized as follows

Paralysis of the sympathetic nerve is more fre quent than is indicated in the literature 2 In only one case was the cause of the paralysis

determined

3 The difference between the near points of the two eyes was greater in those with the most complete syndrome

4 The average difference between the pupils was 18 mm before the instillation of cocaine and 3 mm

I The width of the palpebral fissure averaged 35 mm less on the affected side

6 There were no visible fundus changes E S PLATT M D

Buelbring E Malignant Neuroblastoma of the

Sympathetic (Ueber das boesartige Neuroblastom des Sympathicus) 1rch f path 1 nat 1928 celavin 300

The case reported was that of a four year old boy Microscopic examination at autopsy showed side by side all the developmental stages of the formative tells of the sympathetic viz dense cell clumps with tucles which could hardly be isolated and without intracellular substance and in other places where the nucles lay more loosely rosette formation with a reticular framework which stained yellow with the lan Gieson stain At several places in the tumor the cells presented less uniformity even isolated gan glion cells were seen. The nerve fibers were demon strated histologically by the Gross modification of the Bielschowsky method

Braeucker Surgery of the Sympathetic in the Ex tremities (Liniges zur Sympathicuschirurgie an den Fatremitaeten) Zentralbi f Chir 1928 lv 831

In a case of excessive sweating of the hands and leet which had been treated conservatively without success for years a test injection of novocain into the principal peripheral nerves showed the trouble to be of central origin. It was determined that the central excitation for the left hand ran over the rami communicantes from the eighth cervical to the first dorsal and the excitation for the right hand ran over the rame communicantes from the seventh

cervical to the first dorsal Resection of eighth cer vical to first dorsal rami communicantes on the left side resulted in a complete cure. A few months later a corresponding operation was performed for the feet the rams communicantes from the fourth lum bar to the second sacral being divided The opera tion in the cervical region was performed one year ago and the operation on the ganglia of the lumbar sympathetic nine months ago

The author determined also the skin areas belong ing to the individual rami communicantes found that the ramus communicans from the seventh cervical supplies the radial portion of the hand and the first two fingers the ramus communicans from the eighth cervical supplies the last three fingers and the middle of the palm and the ramus communicans from the first dorsal supplies the ulnar part of the hand The supply in the vasomotor paths also cor responds to these secretory dermatomes

By determining the sympathetic dermatomes it is possible to limit operation to the minimum in the treatment of secretory and vasomotor disturbances in the extremities and to cure such conditions by dividing only the rami communicantes belonging to these skin segments

Rieder W. Investigations by Capillary Microscopy in Periarterial Sympathectomy (Capillarmikro skopische Untersuchungen bei penarteneller Sym pathektomie) Arch f klin Chir 1928 cl 136

Capillary microscopy and tests of the capillary reflexes with various stimuli confirm the theory that removal of the so called persarterial tissue has no influence on capillary reflexes. Observations at operation under local anasthesia showed that arteries are not equally sensitive to pain at all sites. There are areas in which pain cannot be excited by pinch ing or by electrical irritation whereas other areas are extraordinarily sensitive to pain

After resection of the cervical sympathetic or removal of the lowest cervical ganglion there could be observed an increase in the visible capillaries which later disappeared The circulation was con tinuous in all of the capillaties. In Raynaud's dis ease the spasms and stases which were noted before the operation entirely ceased. Also in this case a capillary reflex to mechanical irritation was present after the operation STAILL (Z)

MISCELLANEOUS

Nedelmann E A Malignant Tumor of the Thy mus with Peculiar Metastasis into the Cen tral Nervous System A Contribution on the Question of Tumor Metastasis by the Cerebro spinal Fluid Route (Zur Klinik eines malignen Thymustumors mit eigenartiger Metastasierung ins Zentralnervensystem Beitrag zur Frage der Gesch wulstmetastasierung auf dem Liquorwege) Zische Aeurol 1928 CXV 539

A boy three and a half years old became suddenly ill with headache vomiting and great prostration and when seen by the author on the twelfth day showed a left facial paresis and other signs of in volvement of the nervous system Heine Medin s disease was suspected at first but the spinal fluid contained 2 450 cells per cubic millimeter and among these there were indisputable tumor cells

In the further course of the condition there an peared meningitic symptoms and phenomena of functional impairment of the basal cranial nerves and of spinal cord injury particularly in the cauda equina Eight weeks after the appearance of the

first symptoms the child died Autopsy revealed a malignant tumor of the thy mus with among other metastases a secondary growth in the choroid plexus of the third ventricle From this point the central nervous system had been flooded with tumor cells by way of the cerebrospinal fluid circulation Particularly remarkable were the th ekening and spindle shaped swelling of the nerves emerging at the base of the brain and of the spinal nerves especially in the region of the cervical cord and the cauda equina POLYA (Z)

Woollard H H. The Comparative Anatomy of Epicritic and Protopathic Sensation Med J Australia 1928 11 544

After reviewing the objections to Head's theory of enteritic and protopathic sensation, the author marshals facts from comparative anatomy to support this theory. He believes that in the animal scale the reptilian pervous 53 stem is the first to show evidence of the segregation of the epictitic and protonathic systems In the reptile there are a con iderable num her of neuro-epithelial nerve endings in the skin

among the free naked endings in the deeper ceils The tentile is the first vertebrate in which definite posterior columns and in nuclei corresponding to the gracile and cuneate Homologues to the spinothalamic tracts and medial geniculate body are demonstrable (protopathic system) In the thala mus this system reaches a large medial nucleus There also appears in the reptile for the first time in the animal series a lateral thalanuc nucleus receiving fibers corresponding to the mesial fillet (epicnuc system) Finally the reptile carnes the first indica tions of a neocortex which is connected with the thalamus by fibers from the epicnic system Cor responding changes in the cerebellum red nucleus

corpus striatum etc. are described all of which Woollard cites in support of Head's theory Il collard then shows how these early beginnings in the reptile grow to ever increasing importance in the animal series in correspondence with the

development of the epicritic system LEO M DAVIDORY M D

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Iselin H Postoperative X Ray Treatment of Can cer of the Breast (Die Nachbehandlung des ope nerten Brustkrebess durch X Strahlen) Schuer med Wchnicht 1928 Juni 693

Handley demonstrated that cancer of the breast extends almost exclusively by way of the lymphatics. He called this continuous extension permeation. Issun believes that the treatment of cancer of the

breast is surgical but he agrees with DeQuervain and Hotz that in early cases the procedure may be limited to amputation of the breast with the skin flaps centering about the tumor wide excision of the pectoralis fascia and clearing out of the avilla. In advanced cases he removes the pectoral muscle

As soon as possible after the operation in the author's cases systematic irradiation of the entire chest clavicular fossæ and epigastrium is done as a proph) lactic measure In order to protect all sound tissues including the skin and blood a weak filter of 1 mm of aluminum is used. The dosage is meas ured in Sabouraud units as Iselin has seen the biological effectiveness and reliability of this method demonstrated in numerous cases. One Sabouraud unit is given at a treatment. The raying is begun in the supraclavicular and infraclavicular fossæ and in the axilla both of these fields being treated from in front and from behind In the raving from in front from 2 to 3 mm of aluminum and a distance of 24 cm are used whereas in the raying from behind from 3 to 5 mm of aluminum and a distance of 50 cm are used Only after the lapse of one week is the field of operation irradiated. In the treatment of this area a filter of 1 mm of aluminum and a dis tance of 24 cm are used The lower part of the thest the flank and the entire back are treated in the same way

After a period of at least three weeks the affected size of the chest is re irroducted field by neld with the use of a filter of a ora, mm of admind the use of a filter of a ora, mm of admind the use of the period the treated. In the cases of this patients a 2 mm filter of alumnum is sufficient but when the chest is that, the exposures must be male from various sides with a filter of 3 mm of alumnum and ad distance of 50 cm. The typestrum is treated with from 1 to 2 Sabouraud at 3 5 mm their given at a does and a filter of alumnum being used. The sterium is treated with the sterium is treated with the sufficient of 5 mm of alumnum being used. The time required for the rative course of treatment depends upon the find large.

B) this \ ray treatment the results of operation in the surgical clinic of Basle have been greatly im proved. In cases treated during the period from

ion to 1913 without irradiation, freedom from recurrence and metastass was obtained for three years in 8 per cereation was obtained for three years in 18 per cent with irradiation (twelve where the first is traited with irradiation (twelve where the first is traited with irradiation (twelve where the first is the state of the interest with metastases to the lymph glands) a cure was obtained for three years in 30 per cent and for five veats in 30 per cent in 1917 seven of the twelve patients who were treated in 1918 were in perfect health two had died from carcinoma and two had died from other causes From the point of view of prognosis the medullary carcinoma was found to be the most being and the serribous carcinoma the most malignant.

BRUNNER (Z)

TRACHEA LUNGS AND PLEURA

Frioleau W. H. Tracheotomy Technique and After Care of the Patient Surg Gynec & Obst

In the author's cases in which tracheotomy is to be performed the operative field is infiltrated with 34 per cent novocum if time permits The neck is slightly extended and a transverse incision from a to 6 cm in length made about 2 or 3 cm, above the sternoclavicular junction After separation of the fascia and muscles the tracheal incision is made between the fourth and fifth or the third and fourth A low tracheotomy is preferable to a high tracheotomy as it is more comfortable and heals quickly and a high tracheotomy may cause per manent injury to the larvnx Before inserting the tube Prioleau allows the patient to take a few deep breaths in order to cough out the accumulated mucus or he removes the mucus with an aspirator The muscles fascia and skin are approximated with interrupted catgut sutures and a dressing is applied around but not over the tube

After this operation there is more need for constant and expert attention than after any other surgical procedure. When feasible the tube should be be removed at the end of about three hours. If the patient is unable to take nourishment normally a stomach tube should be introduced for three or four days. General R. McNurry M.D.

Mather J II and Coope R The Accessory Lobe of the Azygos Vein Brit J Ratiol 1929 1 48f

Most roentgenologists have been puzzled when examining roentgenograms of the chest by the occa stonal finding of a fine convex line beginning at the right aper curving downward and inward toward the mediastinum and ending just below the level of the costal cartilage of the first rib in a dense comma shared shadow.

Bendick and Wessler were able to study at autonsy two lungs in which they had noticed this shadow in roentgenograms made during life They were able to show conclusively that the fine convex line marks off an accessory lobe of the right lung known as the

lobe of the azygos vein Variations in the pulmonary fissures are known to

be fairly common The term azygos lobe' has been applied to several accessory lobes

The accessory lobe of the azygos vein is formed by the partial cutting off of a portion of tissue from the upper lobe of the right lung by a sort of meso azygos in the free edge of which the azigos vein hes. This lobe is rare HOWERD A MCKNIGHT M.D.

Cralourd C Two Cases of Obstructive Pulmonary Embolism Successfully Operated Upon Acta chirurg Scand 1028 law 172

Following a report of two cases of pulmonary embolism in which Trendelenburg's operation was performed successfully the author states that Trendelenburg's operation is a typical procedure which in most cases of embolism can be quite well carried out in the time at the surgeon's disposal Interference with the left pleura is not necessary and should be avoided. After removal of the em holus all cut vessels in the chest wall should be care fully tied. The rubber tube around the vascular pedicle should never be pulled tight its purpose is to pull the artery into the wound

The incision in the artery should be about 2 cm long. The stagnated blood should be let out in order to unload the heart and to evacuate any thrombs that may be lodged in the heart or in the vessels peripheral to the heart. A suction arrange ment is of great aid in the operation. Injections of adrenalia directly into the heart and aorta are of

very great importance

Nystrom G Experiences in Three Cases in Which the Trendelenburg Operation Was Done for

Pulmonary Embolism (Erfahrungen in dies nach Trendelenburg operierten Faellen von Lungenembo lse) Acts chieurg S and 1928 Isiv 110

The first case reported was that of a woman forty eight years of age who was operated upon for hamorrhoids and died thirty hours later The second was that of a woman forty five years of age who was subjected to cholecystectomy and died five hours after the operation. The third was that of a man thirty five years of age who was subjected to appendectomy and is now well

In the first case a typical Trendelenburg operation was done for the removal of the embolus. In the others an extrapleural exploration was done in one instance after resection of the sternal border (un satisfactory) and in the other after resection of the third costal cartilage in addition to the sternal

horder (good exposure) In one case small ruptures had been produced in the intima of the pulmonary artery by too tight

application of the tourniquet

In Case 1 the blood stream was cut off for state seconds in Case 2 for sixty five seconds and in Case 3 that of the patient who was saved for one hundred and four seconds

In the last case the embolus was removed with the aid of a specially constructed suction tube

In Cases 2 and 3 adrenalin was injected into the actta to stimulate the heart

Eloesser L Congenital Cystle Disease of the Lung Surg Clin A Am 1028 vill 1361

Eloesser reports a case of congenital cystic disea of of the left lung in a boy twenty years of age. He quotes Sauerbruch as suggesting that this anomaly may be caused in an early stage of development by a duct of Cuvier which stretching unusually sharrly across the hilum of the embryonal lung bud con stricts and presses upon the latter frequent occurrence of bronchiectatic anomalies on the left side may be explained by the relation between the right and left ducts of Currer

In congenital cystic disease of the lung severe attacks of dyspuces cyanosis and choking occaand frequently terminate fatally. When there is a free communication the s mptons and signs will be those of a wide open internal pneumothorsa When there is no communication at all the cist usually a smaller one contains a mucous secretion and causes the varied symptoms of a benign inits thoracic tumor or an abscess. In some cases how ever the condition is symp omless. There is often

a cough with little or no expectoration The signs are those of a preumothorax with or without pressure and with mediastinal deviation if the cast is open. If the cost is closed the phenomena

may be those of intrathoracic tumor empress or abscess Fever and toxicity depend upon the presence of infection

The diagrosis is difficult and often imposible When a communication with a bronchus ents roentgenogram made with lipsodol will prove that the oil lies in the lung and not in the pleurs and that the condition is a cost and not a pneumorhoras If the cyst contains air but does not demonstrable communicate with the bronchus the presence in the roentgen films of a shadow corresponding to an interlobar septum will reveal the nature of the con d tion since in pneumothorax and marked collapse of the lung the interlobar sentum would also be collarsed

The condition must be differentiated from echinococcus cost dermoid cost and old encapsulated

tuberculous empsema

In infants with signs of increased in rathoracce tension and meditatinal deviation the cist should be opened by the introduction of a valve tube or by marsupialization In older patients wide opening of the cystic lung with subsequent more or led complete removal of the lobe and suture of the com municating bronchus is indicated Uninfected cysts without pressure symptoms may be left untrested JACOB M MORI MD

Thorpe E S Chronic Bronchiectasis in Child hood Pennsylvania M J 1918 xxxx 168 Moore W F Bronchoscopic Treatment of Bron chiectasis in Children Pennsylvania M J 1928 xxxx 151 xxxx 170 xxx 170 xxxx 170 xxxx 170 xxxx 170 xxxx 170 xxxx 170 xxxx 170 xxx 170 xxxx 170 xxx 170 xxx

Thorse states that in cases of bronchectass in chidire under thritten pears of age he found the most common precursor to be bronchopneumonia of the conditions of importance in the etiology were pertusus measles and disease of the accessory nasalsmuses. In about 65 per cent of the cases there was residual episs in the tonsils sinuses or middle ear Rickets was an important factor in nearly all of the cases sait reduced the general resistance. In half of the bronchoscopically removed material the present the case as it reduced the sait of the case sait reduced the general resistance.

domnant orginism was the streptococcus

During the earlier stages bronchoscopy revealed
sight annalar dilatation of the bronch loss of the
glad structure and resulual secretion after cough
ing. Roentgenograms showed slight interstitual and
bronchal promisence obliteration of the cardio
relation angle and evidences of chronic pleurisy and
dephagmants of wanction. The principal's improve
manual cough brought on by a change of
pation. The properties of the properties of the
position. Signa were those of pulmonary, fibrosts and bronch
chits in nearly so per cent of the cases there was
clubbing of the fingers.

The most common complications were broncho pneumonia and pleuris. Renal disease occurred in 30 per cent of the cases. Anomia was found in one

half of the cases and undernutrition was common Moore believes that bronchiectasis in children almost invariably follows an acute infection and that dieae of the nasal accessory sinuses and larn goltachesis are of little importance in the etiology

One hour before a bronchoscopic examination is made in Moore sets the patient is given from Fig. 16 fg; for fimphine sulphate Secretions are sent to 16 fg; of morphine sulphate Secretions are sent to the laboration of a saccine. Lipsoid, of once for the preparation of a saccine. Lipsoid, of superior control in quantities of firm 5 fb or 2 c cm. The vaccine is given every fourth day and bronchory treatment every seven days. The secret proposed of the perior for the control of the secret proposed of the perior for the control of the secret proposed of the secret propose

Early cases respond best to bronchoscopic treat ment and those with a small localized area have the best prognosis. Bronchoscopy furnishes the drain age which is necessary in this condition

WILLIAM A BRANS M D

Whittemore W. The Treatment of Chronic Bron chopulmonary Suppurative Lesions I imited to One Lobe of the I ung No Englant J. W. d. 1918 CKIN 1213

The author reviews his experience at the Mas structis Ceneral Hospital in the treatment of chronic suppurative bronchopulmonary infection with dilatation of the bronchi limited to one lobe

and not due to the tubercle bacillus. The only curs atterprocedure in this condition is surgical removal of the involved lobe. Bronchoscopy is of value chiefly for the aspiration of pus from the bronchia tree the dilatation of strictures and the removal of granulation tissue that is tending to obstruct the bronchus. The author believes that the injection of lipiodol is unnecessary for the diagnosis in most case and is dangerous as it may carry the infection to the sound lung. Artificial pneumothorax is seldom beneficial.

Graham's cautery lobectomy has yielded good re sults especially in involvement of the lower lobe with atelectasis. Amputation of a lobe of the lung within the pleural cavity has been abandoned be

cause of its very high mortality

The operation advocated by the author is done to shut off the blood supply to the lobe fix the mediastinum and retard the infection of the pleural cavity which always follows a lobectomy for a septic It is performed under pitrous oxide oxygen and ethylene anæsthesia. The pleural cavity is opened the lung is examined and sections of a sufficient number of ribs are removed to permit delivery of the disea ed part of the lobe from the pleural cavity. The lung is then firmly sutured to the muscles of the chest wall and a No 20 French catheter is inserted to the root of the lung. The wound is closed as tightly as possible. The pleural cavity is drained by the catheter. The lobe becomes necrotic in about ten days and sloughs off in from three to five weeks

In nine cases operated upon in this way there were six complete cures and two deaths

WILLIAM A BRANK M.D.

HEART AND PERICARDIUM

Stevenson G II and Marshall A J Rupture of the Heart from a Pyæmic Abscess in the Myocardium Glasgow II J 1928 ct 33

The case reported was that of a boy nine years of age who was struck on the left ankle by a stone. Three days later septic blisters appeared at the site of the injury and a few days after the formation of the blisters the picture of osteomyelitis with sep teemia developed.

At operation free incisions were made over the fibula but the percosteum and bone did not appear to be involved. After the operation multiple ab scesses developed and the pulse remained 120 although the general condition seemed to improve Death occurred sud lenly.

At autopsy the pericurdium was found distended by pus and blood from a ruptured abscess of the wall of the left ventrucle which had traversed the entire thickness of the ventricular musculature. Two other abscesses were present in the same region but did not entirely penetrate the wall. Cultures of the pus vielded staph lococcus aureus.

Only nineteen similar cases have been reported in the literature William 1 Brans MD

ITTEVIU RAT

Alexander gives a historical account of the efforts made to treat suppurative pencarditis surgi cally The first successful pericardiotomy was per formed in 1810 by Romero of Barcelona for nonsuppurative pericardial effusion Two of the 3 patients upon whom he performed this operation recovered In 1844 Hilsman performed the first successful pericardiotomy for suppurative peri carditis Since then there have been reported a total of 176 pericardiotomies for suppurative pericarditis

with 76 recoveries and 55 deaths Suppurative pericarditis is usually a secondary disease Most commonly it follows pneumonia and rheumatic fever but may be associated with or follow other conditions such as tuberculosis osteo mychtis puerperal sepsis gonorrhora scarlet fever typhoid fever meningitis malaria erysipelas and leukemia. It may be a terminal complication in gout chronic nephritis arteriosclerosis scurvy pleurisy angum m diabetes and various other chronic illnesses including certain types of henatic

cirrhosis

Primary pericarditis is usually due to external trauma but cases have been reported in which it was caused by an injury from within such as per foration of the esophagus or the stomach through the dianhraem

The types of microorganisms found include nneumococci Koch s bacillus bacillus pvocyaneus bacillus welchs and other pyogenic cocci and bacilly. The condition is most frequent between the sixth and twenty fifth years of age. Pneumonia is responsible for most cases of purulent pericarditis

at any age The physical signs of pericardial effusion depend upon a disturbance of anatomical and physiological relations resulting from the accumulation of fluid in the sac. Muffled heart sounds are characteristic An accumulation of 750 c cm of fluid may cause the disappearance of all traces of friction rub even at the base and the aper where frictions usually persist longest An increase in the extent and a change in the shape of the area of precordial duliness noted on percussion are among the most trustworthy diagnostic signs. In children precordial bulging is According to Williamson downward suggestive displacement of the left lobe of the liver is one of the earliest signs. An accumulation of from 500 to 600 c.cm causes a displacement of 2 5 cm The X ray is not of much aid in the diagnosis as the patient is too ill to permit a satisfactory roentgen examination The symptoms are due to the mechanical enlarge ment of the pericardial sac in the thoracic cavity the presence of pus associated with toxicinia and reflexes due to irritation of the phrenic nerve and the ganglia and nerves of the intercostal plexus

The diagnosis is made certain by the finding of pus on exploratory puncture or incision but a probable diagnosis can be reached from a careful consideration of the etiology the course of the forer the cardiac muscle symptoms the general condition precordial cedema a high leucocyte count and

ray evidence of fluid in the pencardial sac-The treatment is drainage of the pus by wide exposure of the pericardial sac. The incision should be made to the left of the sternum as low down as possible because the lowermost part of the pen cardium lies toward the left and because the sac is more likely to be uncovered by the overlangue pleura on this side Many operations have been devised in accordance with these principles. Resections of the fifth sixth and seventh costal cartilages either alone or in pairs and in some instances with resection of portions of the sternum have been suggested. Alexander found excessor of

the fifth and sixth costal cartilages to be sufficient in his cases Local anaesthesia should be employed and torcial attention paid to the anasthesia of the pentardium before the pericardial incision is made Rubber tissue drains inserted after exploration of the sac with the finger have been found satisfactory. Some surgeons advise irrigation with Dakin's solution or

normal saline solution but Alexander has not found this necessary

The author reports 4 cases The first case il lustrates the difficulties in diagnosis Operation revealed enormous dilatation of the heart but no fluid in the pericardial sac. This was a case of them matic fever. The patient recovered in spite of the operation but cardiac decompensation persisted

In the second case the suppurative pencardina followed a lobar pneumonia Complete recovery resulted

In the third case also the condition followed I bar pneumonia The patient survived two months after the operation and during that time there was inter mittent drainage of pus through a catheter introduced into the pericardial sac

The fourth case was that of a girl of six years who became ill with symptoms of septicamiz Opera tion was performed ten dass later after \ rav examination had revealed evidence of pencardial effusion Fifty cubic centimeters of a turbid fund showing pus cells were removed Recovery was MANUEL E LIGHTENSTEIN MD complete

ESOPHAGUS AND MEDIASTINUM

Beatty C C Congenital Stenosis of the Esoph agus Brit J Clid Dis 1918 xxv 237

The author reviews in detail fifty cases of con genital stenosis of the asophagus which were recorded in the literature up to 1926 and reports four more

There are two varieties of this rate aromaly (1) a membranous t) pe with partial occlusion of the lumen by a fold of normal mucous membrane and (2) a non membranous type with a localized reduc tion of the size of the resophagus. The stenosis may be situated anywhere in the esophagus but its most common sites are the upper and lower ends

In congenital stenosis there are no pathological changes in the walls of the exophagus such as are found in acquired stenosis but there may be hyper trophy and dilatation above the obstruction. As a rule congenital stenosis is not accompanied by other reorgenital abortmulities.

The symptoms of congenital stenosis usually begin in infancy most commonly at the time of weaning. The most characteristic symptom is regurgitation of unchanged food within a few minutes after its

deglutition without pain or nausea

Adults with congenital stenosis of the esophagus may be well developed and well nourished but in children and adolescents some degree of infantilism

is not uncommon

Roentgenography and esopharoscopy are in

valuable in the diagnosis

When treatment is given the prognosis in the membranous type is good complete recovery being

usually possible. In the non membranous variety the prognosis is not unfavorable as regards life but restriction of solid food is generally necessary. The best treatment in the membranous variety is

gradual dilatation with bougies controlled by esophagoscopy until the membrane has been destroyed

In the non membranous form dilatation is un hiely to be successful and is attended by consilerable risk of rupturing the cesophiques. A fewsuccessful results following radical operations have been reported. In a case of stenous at the lower end of the cosophagus it may be necessary to consider existing. MAYUEL IL LICHTENTEN VI D

MISCELLANEOUS

Guion C M and Meara F S Chest Pains Med
Cl n \ 1st 1928 xii 623

The authors discuss the causes and treatment of angina pectoris. Attempts have been made to block the pathways of pain by surgical measures. Cases

have been reported in which the pain ceased after mesthetization of the second and third dorsal nerves on the affected side. However the relief was only temporary. In 1909 Jonnesco reported a case in which he obtained a cure by resecting the left cervical sympathetic. Coffey and Brown completely relieved the pain by cutting the superior cardiac nerve and the main trunk of the sympathetic below the superior cervical ganglion.

As the pain is a danger signal warning of exhaus tion of the heart these measures should be used only after all other efforts to give relief have failed

Reflex angina begins below the diaphragm possibly in the gall bladder. Cardiospasm and pylorospasm can cause intense pain beginning in the epigastrium and radiating up the sternum and out into the laws. Howard A McKangir M D.

McPhedran F M and Weyl C N The Value of Synchronization in the Accurate Diagnosis of Chest Diseases Radiology 1928 x1 458

As applied to roentgenography of the chest synchronization means making exposures at a selected phase of the cardnac cycle. Pairs of films thus exposed in the same phase are truly stereoscopic. Cardnac movements the pulse wave within the pulmonary arterial tree and the vibration of the pulse set up in the peripheral ling are responsible pulse set up in the peripheral ling are responsible that the properties of the properties of the pulse set up in the peripheral ling are responsible pulse which are variously vietroristed.

The authors have devised a method whereby with the time of exposure cut to one fortist for a second and accurately timed as to the cardiac phase clear plates may be obtained free from the blurry marries so commonly seen

This method offers an improvement in the chest technique which may change the interpretation of lung markings. It constitutes also a delicate test for cardiac failure comparable with early ophthalmoscopic examination for changes in the circulation.

GEORGE A COLLETT M D

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Rosenblatt M S and Meyers M Muscle Fascia Suture with Preserved Fascia and Tendon Surg Gynec & Ohn 1928 alvu 836

In experiments on dogs Rosenblatt and Meyers carefully removed the loose arcolar issues from the rectus muscles and then sutured them to Poupart's ligament urder strong tension to determine what may be expected in the way of union under tension Preserved ox fascia and tendon and autogenous fas cas were used as suture maternal

Both the dead fascia and the autogenous fascia gave very firm ution. The tendinous material gave less firm union and was more difficult to use as it was inelastic hard and apt to be more bulk. The union obtained with the autogenous lascia was no fitmer than that obtained with the dend fascia.

At necropsy the fascia suture appeared smaller than when it was introduced and there were dense fibrous growths between the suture and the mustle and Poupart's ligament. When tendon was used no reduction in the size of the suture was noted and the fibrous ingrowths were lewer.

The microscope showed that the fascia and tendon grafts had caused a foreign body reaction but very little round cell reaction. Connective tissue cells had invaded the grafts and bound them to the muscles and fascia. Marked vascularitation of the grafts had taken place.

The authors conclude that the dead fascia graft is of value in difficult hermotomies

LOUIS P GAMBEE M D

Welik M. Inflammatory Diseases and Jaconato mata of the Anterior Abdominal Wall (Uder entzuendliche Erkrankungen und Haematome der vorderen Bauchwand) feis chirurg. Scond. 1928 12m 532.

In the period from 1921 to 1927 inclusive twenty cases of disease of the anterior abdominal muscles were observed in the surgical hospital clinic at Dorpat. Three were of traumatic and seventeen of metastatic origin. The causes were

. Traumatic rupture of the auterior abdominal

muscles without suppuration
2 Spontaneous rupture of the muscles as a result

of degeneration or atrophy
3 Spontaneous rupture of the epigastric vessels
due to acute or chroni injuries of their walls
4 Primary foci of infection and pyogenous mixed

infections forming metastases. To this group belong also the so called idiopathic cases which are metastases from a latent focus of infection.

By causing imitation of the parietal peritoneum and consequent inflammatory peritonitis ruptures

and inflammatory condutions of the above naturalists of scule ones may another acut man abdominal disease. In cases of aborenes and be maintained as the rectus sheath it is important to determine whether the Isson is located to the right of the midling and to note the stary limitation of the swelling at the tendinous mertion of the midling and the tendinous mertion of the midling and the tendinous mertion of the midling and the midling and the tendinous mertion of the midling and the midling are the moved desired ship distinct the midling and the midli

In the twenty cases reviewed the rectus muscle was involved most frequently. In four cases pursure foca of infection besides influenza and pneumonus were found and in one case a puerperal infection was present. In three c. — s the condition was present to not purely traumatic origin and in seven its origin.

could not be determined

Bailey II Strangulated Femoral Hernia Frd M J 1928 n 1933

The author compares the old lower operation with the Loth isen operation for Limoral hernia. The disadvantages of the lower operation are summarized

as follows

r Resection and anastomosis are impossible within the limits of the wound

2 A loop of bowel may be reduced extrapentone

3 The bladder is in dang r of injury

4 The loop of bowel may retract within the abdo-

men before it can be inspected.

The technique of the Lotheisen operation is described. Particular attention i given to plains

the deep sutures through Cooper's ligament and the periodicum. It is important to keep the left needs finger in contact with the femoral sent to protect this vessel. The utures are carried through the conjoined tendo. ard when the direct the street ture into intimate contact with the hopecumealise. In seventy cases treated by the loner method

In seventy cases treated by the lover method there were five recurrences and four deaths whereas in thirty cases treated by the Lother en method there were two recurrences and one death

The operation of Hey Croves in which Forparish figurent is split has certain advantages over the lower method. The author performed this operator in seven cases with two deaths. Of the lour pattern who have been traced none has developed a resurence. William J Pergert M D.

Schaer W. The Determination of the Vitality of Leucocytes in Peritoneal Enudate (Let Pridisk der Vitalitaet) on Leukocyten in Lentonealersu is Deutsche 21 chr. f. Un. 228 ccr. 250

The author determined the vital staining capacity of the pus cells in the peritoneal exidate in about fifty cases of appendicuts! Undamaged cells did not the colloidal dyes such as Congo red or trypan blue but damaged cells absorbed these dyes. There appeared to be a relation between the statung ca pacity of the leucocytes the anatomical changes in the abdomen and the duration and vurulence of the infection. It was possible to judge the processes in the abdomen from the number of damaged cells. The number of damaged cells was greater in cases of intra abdominal abscess than in those of fresh per foration. This finding was in agreement with the more daggeous clumcal picture and higher mortality.

in cases of intra abdominal abscess The conflict of the organism against the infection was shown by the staining reaction when the living ancolored cells were compared with the damaged stained cells Such a comparison permitted certain conclusions to be drawn with regard to the progno sis A single examination during the operation gave information as to the defensive powers of the body In acute phlegmonous appendicitis the number of stained leucocytes never exceeded 10 per cent. In gangrene and perforation the number of damaged leucocytes ranged from 10 to 50 per cent. In per forated appendicitis with general peritonitis there were hardly any unstained cells In old appendiceal abscesses all of the cells were stained whereas in early cases from 30 to 60 per cent showed staining KOENIG(Z)

Dudley G S Endothelioma of the Peritoneum

Ann Surg 1928 IXXXIII 1110

The patient whose case is reported was a woman who had an attack of pleurisy in 1918 when she was seventeen years old and in 1921 was believed to have tuberculous peritonitis. In 1922 she was operated upon under local anæsthesia for right inguinal her nia In July 1922 she was subjected to a laparot omy for a condition believed to be tuberculous pentonitis but the pathological diagnosis was pseu domy zoma of the perstoneum In October 1022 a second laparotomy was performed for the evacua t on of fluid from the abdomen and a pathological diagnosis of subacute productive peritonitis was made In October 1923 February 1924 and Octo ber 1924 \ ray treatment to the abdomen was given Menstruation stopped after the beginning of this treatment

this treatment
Is jamusy 1025 the abdomen was opened for the
Is jamusy 1025 the abdomen was opened for the
Is jamusy 1025 the abdomen was opened for the
and a pathological diagnoss of adenocar
town of the personeum was made. In Max 1025
Yays many was again administered and in june
1925 flush was again administered and in june
1927 was made in june
1928 was mad

alleviate the symptoms of the artificial menopause resulting from the irradiation

CARL R STEINER, M.D.

GASTRO INTESTINAL TRACT

M Cracken I E Consecutive Tests by the Fractional Method of Gastric Analysis Edinburgh
M J 1028 XXXV 674

The author reviews seventy five cases in which a eastric analysis by the fractional method was done on two or more occasions Each test was preceded by a thirty six hour period of preparation during which all drugs were stopped and a simple light diet was given. Seven hours before the test, which was always made at about 7 o clock in the morning the patient was given a cup of milk containing two tea spoonfuls of charcoal and a charcoal biscuit Ryles tube was used The test meal consisted of strained gruel made in the same way for all cases. In most cases a stilet was used in passing the tube After the tube had been passed the stomach was numped dry the test meal was given and samples were withdrawn every fifteen minutes for two hours The stomach was then again pumped empty. The samples were immediately examined for mucus bile blood and charcoal Iodine was used to test for starch. Toenfer's reagent and phenolohthalein were employed as indicators in checking the acidity and in cases in which there was a question as to the amount of free hydrochloric acid the Guenzberg test was carried out

Sixty two per cent of the patients were able to swallow the tube without difficulty the first time they were tested and an additional 15 per cent were able to swallow it without difficulty the second time they were tested. When the acid curves were classined it was found that 47 per cent of the patients had a different curve when they were tested the second time The difference averaged 11 6 units in the de terminations of free hydrochloric acid and o 7 units in those of total acidity. The average difference be tween the first and the second curves was less when the comparison was made at the end of the first hour and a half after the ingestion of the test meal. Most of the patients showed a higher response to the first test than to the second All but one showed a higher response to the first test at the end of fifteen min utes but an hour after the ingestion of the meal the average response was greater in the second test. The percentage of cases in which a higher response was obtained in the first test seemed to increase with the ease with which the patients were able to swallow the tube. When difficulty was experienced in the swallowing of the tube it was found that the first test gave a lower curve than the second at which the difficulty was less. The rate of emptying estimated by the absence of starch was found to be constant in the two tests in about 65 per cent of the cases In the other 35 per cent there was a variation which in the author's opinion might have been found of sig nificance if it had been studied further Considerable variation was noted in the presence and the amount of bile mucus blood charcoal resting juice in the stomach and the residue at the end of the test. The author believes that this was probably of some siginficance.

M Cracken concludes that the variations in the results of consecutive test by the fractional nethod of gastin analysis are greater than is usually supposed and that the test is not a reliable method of recording changes in gastine function resulting from terratiment or other causes. However, he believes that the versue function is not enough that the versue function is not enough that the versue function is not enough that the versue function of the results obtuned from the results obtuned from the results obtuned from the results obtuned in the contract of the results obtuned from the res

LOCIS P GAMBEE M D

Naumann II Fatal Hæmorrhage from a Gastric Ulcer Which Could Scarcely Be 5een at Au

topsy (Verblutungstod aus einem selbst bei der Autopsie kaum nachweisbaren Uleus ventrieuh) Ved Alin 1928 xxiv 935

After a few prodromal symptoms a twenty two year old girl had a gastric hamorrhage with subsequent intestinal bleeding. Another copious hamor rhage eleven days later was fatal

At autopsy it was impossible to discover the slightest evidence of ulcer on the external surface of the stomach but the gastric mucosa on the posterior wall showed a very shallow ulcer about the size of a lentil. The fatal hamorrhage was probably due to a very small blood vessel in the center of the ulcer.

Mandler V Gastric Ulcer and the Bayliss Starling Law (Mageoge chwu r und Bayliss Starlingsches Grundgesetz) Acta chrurg Scand 1928 lxv 346

The author is of the opinion that the pathogenesis of the functional symptoms of ulcer of the lesser curvature may be explained by the Bayliss Starling law He discusses the most important symptoms from this standpoint

White F W and Jankelson I R Late In tussusception of the Bowel into the Stomach After Castro Enterostomy Vew England J Med., 1028 CVIX 1180

The authors review the literature on late in tussusception of the bowel into the stomach after gastro-enterostom, and report two cases

The first case was that of a man thirty-right year of see who was operated upon for a penetrating ulcer of the duodenum. The ulcer was inverted and a gastro-enterostomy was performed. Eighteen months later the patient was suddenly seized with epigastro-pan and hematemess resulting in moderate shock. Operation was not considered urgent but death occurred after a few hours.

At autops, the stomach was found greatly dilated and filled with blood staund fluid and coals of small instetune A 40-cm portion of bowel had become invagnated through the gastro-enterostomy opening and was congested and somewhat gangre nous This loop of bowel had been the source of the bleeding

The second case was that of a man thety-senyears of age upon whom a poatent gastrocate ostomy was performed for pyloric idee with obstice tion. Four years later vomining of confe-fround vomities occurred for four days the books finded to move and peristalisis became visible above the unbilicies. Operation revealed a loop of small unities invaganated into the strainach through the gattrtine invaganated into the strainach through the gattr-

enterostomy opening Death resulted.

The authors review sixteen similar cases reported in the literature. Hamstemesis was a frequent and important symptom. A tumor mass was found in less than 30 per cent. and the mortality after operation was 50 per cent.

MILLIAN AS 50 per cent.

Wolfsohn G Gastric Carcinoma After Gastro-Enterostomy for Uleer (Ueber Magnestraeme nach Gastro nterostomie wegen Uleas) Dwinde med Wehnicht 1928 | v 1970

On the base of 1500 fiss own cases and 15 tologial cases of gaster bluck which were treated by 25 measures of gaster bluck which were treated by 25 menterostomy. The replies to a questionnaire set to Berlin surgeons and gaster-caterologists and the statistics in the literature the author his come to the conclusion that cancer of the stooms in very rare after gastro-enterostomy unless it was present before the operation and that when symplomic converse and a vary after the operation they are globally in out due to the development of a gastric canet.

He believes that the nuces of the small insteads contains and-narrannome sub-traces more creamon of the small insteads creamon of the small instead tract and other tumors of the small instead and gastractures for which there of the small instead and gastractures for which the small instead to the small instead of t

Moynihan Sir B Problems in Gastric Surgery Bril M J 1928 is 1021

This arti le is based on the author a experience of thirty years Moynihan deplotes the use of the term gastroduodenal ulcer in a recent acucle by MacLean Jones and Fildes as he believes that no advance in our knowledge of these two conditions can occur if they are spoken of as one disease. He calls attention to the fact that gastric and duodenal ulcers differ in symptoms in their behavio as regards harmorrhage and perforation in their tend ency to undergo malignant degeneration and in the chemical nature of the contents of the stomach. Moreover the two lesions occur as a rule in opposite types of persons He believes the use of the term juxtapyloric ulcer is also to be condemned la his series of over 2 000 cases of gastne where lea than 3 per cent of the lesions were at the pylorus of within 134 in of it

With regard to the relative value of medical and surpeal testament. Moyanhan states that both gas tree and duodenal ulcers may heal under medical testament and remain headed but since sound heal mg may result in pylone stenosis which is virtually doolenal stenosis and in hour plass contraction of the stomach surpeal treatment may be necessary studyed to the stomach surpeal treatment may be necessary studyed to the study of the studyed to the studyed to

Before medical treatment is begun 'the presence of an ulcer must be established definitely At times the 'tray findings are musleading MacLean has reported the complete healing of a very large pere training gastine ulcer in three weeks under medical memorith but the author has never known of such authority of the author has never known of such authority of the a

Moynian emphasizes that the surgeon may do integrable injury by performing a short circuiting operation in cases in which no trace of uler is found abreas drugs and dietary treatment do no hard an uler is not present. In cases without uleer nedical treatment has earned an undeservedly high repute and surgical measures have been brought

into unwarranted disrepute

Medical treatment is apt to be dangerous prolonged and techous. To banish symptoms is easy, but cessation of the symptoms seldom means that the uter is cured. The object of treatment must always be firm healing of the uter. MacLean is quoted as stating that if symptoms recur treatment with mils and alkalne powders for a day or two is included but Moyunhan emphasizes that recurrence of symptoms means renewed activity of the uter.

infection and spasm MacLean uses the word cure to reporting a number of cases in which treatment was begun in 1936 or 1927 but in Moyni han a opinion a cure under medical treatment in the short period since that time cannot be assumed especially when seasonal variations and the cyclical character of the symptoms are taken into considera

With regard to the intensive administration of sliklies. Mormhan points out that this treatment is theoretically unsound since in many cases of ulcer the gastine contents show a low aculity or none at all. However until something better is found sliklies are indicated when hyperchlorhydria is

present It has been suggested by kinsella that the potent effect of alkalies is due not so much to their neutralizing power as to their ability to dilate the pilorus with subsequent relief of the spasm and emptying of the stomach.

If medical treatment is to succeed the patient must closely follow the advice of his physician Per functory and haphazard procedures which leave too much to the patient are often the cause of dis appointment in the results and of the rences or true disasters with which the surgeon has so frequently to deal Medical treatment must include a few weeks of rest and the administration of triple or quadruple carbonates when the acid content is high. Advice with regard to diet, the use of alcohol and drugs and rest warmth and cloth ing must be scrupulously followed by the patient Movnihan takes exception to Hurst's statement that calloused and penetrating ulcers may heal in three months as he has found that healing may require as long as three years

The patient who has experienced many recurrences or in whom one or more chrome ulcers have entered or are still present is only wasting time and risking his life by continuous medical treatment. It is rare indeed to hear of a patient who has unfailer might submitted to the full prolonged medical treatment. Moreover patients in poor financial circum stances are selfom able to give medical treatment an adequate trial. Therefore the treatment of against and duodrial ulcers is an economic rather medically, must be attributed to the failure of that treatment.

If gastro-enterosiomy ones its success to the alkalianizing power of the bile that enters the stom ach it would seem rational to expect that cholecysto gastrostomy would accomplish the same results In cases of inaccessible large ulcer in the stomach with a normal or high aculty and in cases of jejunal ulcer the latter operation has been done but it is still too soon to judge the end results

A certain percentage of gastinc and duodenal ulcers can be influenced only by surgery the proportion depending upon the ages and general condition of the patients the duration of the ulcers the care exercised in intensive medical treatment and its duration the subsequent attention paid to diet and other matters the occurrence or non-occurrence of harmorrhage stenosis and chronic perforation with adhesions to neighboring parts and in the case of the stomach the tendency toward malignancy.

Seldom if ever does a patient with duodenal ulcer and a history of two or more attacks recover per maneatly under medical treatment. The symptoms may subside for months or even years but ulti mately they recur. As a rule it is the incompletely calloused ulcer that breaks down. Hundreds of such cases have been seen.

The main indications for surgical treatment in duodenal ulcer are recurrence of the symptoms stenosis and bleeding

Attention is called to the modern tendency of surgeons everywhere to abandon short-circuiting operations The author's long experience leads him to believe that such operative procedures are the most successful of all abdominal operations grave discrepancies in opinion are explained by the fact that gastro-enterostomy should never be per formed alone but should be accompanied by some measure that deals directly with the ulter linless this advice is followed the symptoms may recur and perforation or bl eling may necessitate re In addition the appendix should be removed an I the gall bladder and spleen dealt with as indicated. In cases with an ulcer on the nosterior surface and with or without an anterior ulcer the duodenum may be opened the ulcer cauterized and the pylorus closed temporanty with an encircling suture. In over 80 per cent of cases with both an anterior and a posterior ulcer the anterior ulcer is the older Lake's dissatisfaction with gastro enteros tomy is attributed by Moynihan to inadequacy of his attack. Careful pre operative preparation is es sential Since the ara tomosis does not heal by first intention, bismuth carbonate should be given and a special diet prescribed. There will be no dissatisfaction with gastro-enterostomy if care is taken to observe these rules. The mortality averages i per cent although Pannett in a recent article reported it to be 4 or 5 per cent in selected cases and higher in unselected cases Preliminary preparation of the patient including blood transfusion does not mean that the case belongs in the selected group

that the class decoupt in the street spiritories of It is difficult to explain the wide difficult of the class of that the operation was not properly periodic Lake gives the incidence of unsatisfactor, results as age per cent but in the authors expendence it as between 6 and 8 per cent. The operation is too often done for such conditions as lead possoning visceroptous cholelthiasis tabes donalts and achior hydras.

When definitely indicated and properly performed gastro-retrostoms should cause no anxiety except in the case of harmorinage and jejunal ulter. The former occurs as a rule from an ulter at or near the anastomom has been proposed to the control of the control of

The ultimate results of gastro-enterostoms are spotted by the complication of jejunal ulter in from 4 to 5 per tent of cases. The ulcer may develop while the patient is still in the hospital or as late as mieteea jears later. As a rule it appears within two

3 cars

Lewisohn reports that jejunal ulcer developed in 34 per cent of cases in which he performed a gait oenterostomy for duodenal ulcer while Burges re ports that he has rarely observed the lesson. Following the lead of Haberer miny surgeons now advocate partial gastrectomy for duodenal ulcer Before this procedure is considered gastro-enteres tomy should be given a fair trial based on strict adherence to an invariable routine including careful examination pre-operative preparation confirms tion of the clinical diagnosis at operation destruction of the ulcer by cauternation or otherwise repair of the duodenum followed by a short-circuit ing operation removal of the appendix examination of the biliary tract regulation of the diet and restriction of the use of tobacco alcohol, and salt li these precautions were fully observed little would be heard of deaths or poor results after gastroenterostomy

There is no doubt that pastrectomy for duodenal ulcer is a more senous operation than guiteenterostomy Its mortality ranges from 5 to 10 per cent and in cases operated upon by surgeons of little skill is much higher The unanswerable deduc tion is therefore that if every patient with an unsalisfactory result after gastro enterostorny nere to uz from the operation the survivors with a good result would be equal in number to the survivors af er gastrectomy that is to say equal in n wher to those who in the author's practice de after gastroenterostomy plus all those whose res its ultimately prove unfavorable. The advocates of gastrectomy claim that because of the anacidity re il ing from the operation secondary ulcers are unlikely to de velop This statement has been dispro ed repeatedly Even when three fourths of the tomach has been removed free hydrochloric acid may be found The Interature reports at least 100 cases of jejun I ulcer following gastrectomy for duoderal ulcer On the other hand jejunal ulcer rarely follows gastrectomy performed for gastne ulcer

Ta 166 cases of dudenal ulcer operated upon by Haberer in the period from 1935 to 1937 the mor tality was 84 per cent. Of the roy patients traced 2 developed a gastrojejunal ulcer.

The advocates of gastrectomy are asked b Moyniban upon what grounds the operation i As the mortality is between 5 and e-tablished 10 per cent the operation seems prohibited for it means that a larger number of patients are caused to die in order that a larg r number may her to experience a possibly slighter chance of developers a new ulcer The chemical results do not show to advantage when compared with those follow & gastro enterostomy and there is not a great degree of freed m from the only serious sequela gastrojejunal ulcer In surgery the search should always Gastrectomy for be for safety and simplicity duodenal ulcer is neither safe nor simple and does not give better end results than gastro-enteres ont The worst of gastro-enterostomy is known and th best is unsurpassable. We have jet to learn the norst of gastrectomy and what we know is unfavor

A Continental surgeon has spoken of pastro enterostom va a disease It is true that it is a dauguting and formidable disease—sernous wade spread and highly contagious—but its victims are to be found among surgeons rather than among pittents. It is the irrelevant application of the parties of the properties of the prop

It is true that we are hearing of more and more guitner-interonous that require separation. The widow has separated many of them but in none of the cases has been any unequivocal sign of an old or recent gastine or duodenal ulcer. If the operation has been necessary the anastomores would not have required separation except of course in cases of glunal ulcer. The necessity to undo an anastomoris is a refection not upon an accredited operation but upon the judgment of the physician who advised it of the surgrow who performed it in that particular case. Too often the operation is done solely upon the advice or request of the referring physician.

Mossip A Special M D

Flint E R Complete Gastrectomy for Carcinoma of the Stomach Brit M J 1928 u 979

The patient whose case is reported was a laborer for the patient whose case is reported was a laborer endeather than the patients with pan anorexa and loss of weight make the patients with pan anorexa and loss of weight patients with the patients of loss of loss of the patients of loss of the patients of loss of loss

patient suffered from constipation
Physical examination showed the patient to be
anxieus and revealed an ill defined lump in the epi
gastrium

A diagnosis of carcinoma of the stomach was

At operation the stomach was found to be the size of a large growth. There were thin adhesions to the panceas. Several glands along the lesser curvature and one gland at the cosphageal juncture were in whed. A pilorectomy was performed and the documentum was divided along the greater curvature and the lesser gastrohepate omentum is militarly treated. The stomach was then mobilized and drawn down to raction on the exosphague cut off and satured to the gipnaum. The jejinnum was drawn up in front of the transverse colon.

The patient bore the operation well. Within a month he was out of bed and able to take small quantities of oft food at frequent intervals. Miter a real havery soon became hungry again. Diarrhead aspected for several months after the operation but faully ceased entirely. Microscopic sections

showed the tumor to be a spheroidal celled type of growth

Seventeen months after the operation the nation

Seventeen months after the operation the patient was back at work able to eat normally and in apparently good health except for slight anximal legibleten months after the operation the erythrocyte count averaged 4 500 000 the harmoglobin value was 76 per cent and there was only a slight variation in the size shape and staining qualities of the cells

Sherry L B Two Cases of Benign Intestinal Obstruction Surg Clin N Am 1928 viii 1511

The first case reported was that of a man twenty six years of age who suffered an acute attack of abdominal pain. When the patient was seen by Sherry the abdomen was tense but not distended the temperature 10 degrees F and the leucocyte count 14 000. A diagnosis of perforated appendicits with peritonitis was made.

Operation through a right rectus incision revealed a Meckel diverticulum which had tied itself into a single knot around a loop of the ileum in such a way that the distal free end had become gangrenous When the adherent band was freed the bowel as sumed its normal color. The abdomen was closed without drainage Recovery was unexently.

The second case was that of a man sixty pears of age with a history of pain in the lower part of the abdomen nausea and vomiting of four day duration. Examination of the upper abdomen revaled a visible tumor mass in the midline above the mulbicus. The mass was the size of an orange and freely movable from side to side. It was not painful colon was made obable malignancy of the transverse dolon was made.

Operation revealed an infussisception of the ascending colon into the transverse colon. This was readily reduced A retention cyst or mucocele of the appendix measuring 9 by 3 cm was then found and removed. The patient made an uneventual recovery. The specimen was filled with a clear mu coid material and on microscopic examination was found not to be malignant form. William 10 mt. William 10 mt

Retan G M Non Operative Treatment of In tussusception \ 1 ork State J M 1928 xx\111 1408

In Retan's method of treating intussusception nos surgically the child is placed on a horizontal fluoroscopic table and bartum in water is injected into the rectum by gravity under a pressure of 3 or 4 ft. The barium will stop at a level below the in activation. When this occurs, the supply of barium in the color and the properties of the properties of

With the inner side of one hand placel trans versely across the abdomen pressure is applied on the sigmoid to prevent the baruum from escaping and then with the other hand pressure is carefully and intermittently made on the colon to force the barium upward. The advancing barium forces the gas upward distending the colon and exerting an even pressure against the obstruction.

The risall of this procedure is watched in the fluoroscope. If the obstruction is not relieved the column of barnium is seen returning when the pressure is removed. If the obstruction is relieved the colon is filled with the barnium. Its outline is then carefully studied. If the colon cannot be completely outlined operation is done.

In 400 cases treated by this method by Loch and Oerm the mortality was lower than in cases treated surgically HARRY W FINA M D

Molr P J and Walker G F Sarcoma of the Small Intestine Bru M J 1928 tt 11 o

Sarcoma usually occurs about midway along the small intestine. The prognosis and symptoms do not vary according to the microscopic picture of the growth but depend upon the gross morbid anatomy. The following three types are recognized.

I A small polypoid mass projecting into the lumen of the gut. This is the most common type After several months of general symptoms chiefly cachena colic and fever acute intussusception

2 A cuff like or tubular infiltration of the bowel wall. After general symptoms of several weeks or months duration an abdominal tumor suggesting an appendiceal abscess or ovarian lyst is discovered or subsecute obstruction simulating a growth of the colon takes place

3 A ped inculated mass from the peritoneal surface of the gut General symptoms are followed by acute symptoms due to the increasing bulk of the tumor changes within it or acute torsion of the in

volved coil of small bowel

Three cases are reported. In the first in which operation was performed for active intestinal obstruction a large tumor (sarcoma with cosinophile initiation) was found if in below the duodenojejunal juncture. This was rescreted and a lateral anastic mosa was performed. Eleven years later an anastic util like growth high up in the small intestine was reroved following several months of colic and vomit ing. The patient was well one year after the second operation.

In the second case there was a spindle cell sareoma in the form of a sloughing cyst attached to the small intestine if the from the duodenojejunal juncture. The nationt was alive one year after resection and

Literal anastomosis

The third case was that of a patient who was admitted to the hospital in very poor conducton with a daggeous of actie intestinal tool function. Operation was all that could be sufficient to the small intestinal tumer that theorems all it has toold be sufficient to the small intestinal tumer that the sufficient to the small intestinal tools the sufficient to the small intestinal both runter the control of the sufficient to the small intestinal obstruction by bringing about torsion of the coil to which it was satisfacted.

HARRY L SALTESTEIN M D

Green N W Polypoid Adenocarcinoma of the Jejunum with Acute Intussusception des Surg 1928 lycycu 1112

Surg 1928 levesus 1112
Green N. W. Lesomyoma of the Jesunum with
Intussusception 4ss Surg 19 8 lixeum 1113

A woman thirty four years of age gate a history of abdommal cramps for twent by we days and sure, and somiting for two days. For two years she had been an a diet because of a merous strumt. At operation an intussisception was found about all, from the lagament of Trettz A ja protron of the gut with a pedunculated mass was rescreted and a saide to side a nationous was abone. God treaver, resulted. The pathological diagnoss was polypoid adenocarcinoms of the tenumou.

A man sixty seven years of age had suffered for six months from a facks of abdommal pain which lasted for several hours. At operation 5 in of the ejunnum and a tumou about 13 in from the high the of Treitz were resected and a side to side ansistonsis was done. Good receiver resulted. The publogical diagnosis was leionyoms of the junium.

Caldbick S L Two Cases of Persistent Omphalo mesenteric Duct Surg Ci n h Am 192 Nd 1141

In one of the authors cases of persistent apphalementaries due that of a loby epitten days dit there as a dacharge of freal material brough the umbinious which netrefered with until not to with a extent that surgical inter-ention was need as the other case that of a soma thirty two years' age the retonant of omphalomesentered act boads the identity the umbinious and was the case of abdominal distress but there was no d. charge and the contract of the days of

Ryle J A Chronic Spasmodic Affections of the Colon and the Diseases Which They Simulate Lancet 1928 CCXV 1113

Ryle reviews a sense of fifty case of s, sale color-charly mag anthori errors musics the stools and eleven of the condition commonly call d'monasciolits. That, there of the patients were femile. The average age was thirty intee years. It has tents are described as lean thin sod pure and twenty seven of them as nervous anima or neuroinc. A history of dysente y excessive used tobacco constipution and excessive purgication and often chiested. In eighteen cases (16 per ceed) the appendix had been removed without relief of the symptoms.

The chief complaint in chronic spannodic conditions of the colon is usually disconditor to gain the lower part of the abdomen the pain soften dull continuous ache. It varies greatly in its seeks impoliuse in section 2.5 in its seek in the affected parts of the colon can be seek in the affected parts of the colon can be seek in the part of Earnonianion or the shoot are observed in the colon can be seek in the colon can

in extreme cases the affected length of bowel as a thin thread or streak of barium. There may be also a shortening or straightening of the affected segment The condition must be differentiated from appen deuts duodenal ulcer diverticulitis carcinoma of the colon renal color intestinal obstruction ovarian and tubol disease, and neurasthenia

The treatment must include a simple explanation of the nature of the disorder to the nationt General hygienic measures are important Mental and physical relaxation moderate exercise warmth and a sensible mixed diet are necessary The bulky starchy foods which cause flatulence must be Most fruits are destrable Purgatives avoided should be forbidden. The use of tobacco should be restricted Belladonna helps to relax the spasm Bromides should be reserved for nervous patients When the pain is severe large warm enemata ad ministered slowly and rectal injections of 4 or 5 oz of warm liquid paraffin to be retained overnight are beneficial. As the disorder is so largely dependent upon constitutional factors it is difficult to correct

toms and in mild cases may effect a cure JOHN W NUZUM M D

but rational treatment will often relieve the symp Thorlakson P II T Ulcerative Colitis Canadian M 1st J 1023 XIX 656

Ulcerative colitis is an essentially chronic inflam mation of the colon which is subject to acute or subacute exacerbations. The exact cause is unknown but the condition is almost universally believed to be of infectious origin. The pathological lesion is typi cal an I constant It is an erosion which in the ad vanced stages is associated with cedema conges tion and leucocytic infiltration of the entire bowel wall While the whole length of the large bowel is frequently involved the disease affects most com

monly the rectum and sigmoid The clinical manifestations are diarrhoxa with from six to thirty stools a day containing blood pus and mucus a varying degree of secondary anamia loss of weight in spite of a fairly good appetite slight lever a hucocytosis and cramp like abdominal pain reheved by evacuations. In the diagnosis the sig moi loscope is indispensable. The \ ray is of aid in excluding other causes of diarrhoea and revealing the extent of the disease

The complications of ulcerative colitis are arthri tis hamorrhage perianal abscess stricture polypo sis perforation and mulignancy

As the nature of the micro-organism responsible for the condition is not known the treatment has not been standardized. The author has found a simple cacostomy for irrigation of great value Transverse ileostomy is rarely necessary but is of benefit in selected cases. Its indications are repeated profu e colonic harmorrhages generalized polyposis an I long standing cases in which the colon has been converted into a useless fibrous tube

Dietetic an I medical management are of great importance Vlow residue diet of high caloric value

is indicated. Cod liver oil and calcium lactate by mouth may be added Stovarsol occasionally causes marked improvement

The author believes that ulcerative colitis is due to infection by the bacillus disenterize and should be regarded as a form of bacillary dysentery He there fore uses an autogenous serum obtained by injecting anto animals the Hexner bacillus isolated from recent cases and believes that this treatment is likely to prove better than other methods

SAMUEL KAIDY M D

Adam I. Primary Carcinoma of Baubin a Valve (Ueber das primaere Carcinom der Valvula Bauhini)

Orioskép és 1928 XVIII 29 Carcinomatous growths of Bauhin's valve are oute rare and are difficult to recognize because the clinical manifestations begin with signs of intestinal obstruction The author reports the case of a patient fifty two years old who entered the clinic with a history of symptoms characteristic of gall stone colic or duodenal ulcer of six months duration and with signs of intestinal obstruction for five days. A diagposis of gall stone ileus was made but at operation the cause of the obstruction was found to be an annular neoplasm in the carcum. As the patient s condition did not allow a radical procedure the author divided the ileum 15 cm above the ileocacal valve inverted the distal end and brought the proximal end through the abdominal wound after introducing a drainage tube

The patient recovered so rapidly that two weeks later the lower part of the ileum the cacum and the ascending colon were radically extirpated. The transverse colon was then closed blindly the loop of small intestine leading to the abdominal wall was divided and its proximal end was anastomosed end to side to the transverse colon and the distal end and the ileostomy were removed Uninterrupted

convalescence resulted

The opened specimen showed clearly how the deocacal valve had been forced into the lumen of the excum by the increased peristalsis of the small intestine with the production of complete obstruc-Microscopic examination showed the tumor to be an adenocarcinoma

Fried II Roentgenological Study of the Inverted Caecum im J Roenigen ! 1928 xx 531

The execum becomes inverted as the result of congenital malposition associated with interference with its normal descent or prolongation of the meso colon and abnormal mobility of the ascending colon and cacum Three cases of excal inversion are reported by the author From a study of these and similar cases Fried draws the following conclu-

1 The inverted excum 1 a clinical entity 2 It has both a chinical and a roentgenological

syndrome 3 The clinical signs and symptoms are fairly constant

roentgenological study

5 When the excum is in the normal position or is high the diagnosis may be established by the ingested barium meal

6 A high cacum will turn back to its normal position when it is distended with a birrum enema

unless it is held by adhesions

7 In a low cocum an ingested barrum meal will fail to show inversion because of the crowding and massing of the intestines but the banum enema will reveal the inversion because the floor of the pelvis prevents the organ from turning downward and the intraluminal pressure forces it to turn upward

8 The standing position will frequently turn the inverted excum down and the prone position will

turn it un

o Recognition of the inverted excum is of prime clinical importance as it may prevent an unneces sary abdominal operation Apoleii Harring M D

Monnier E The Diagnosis of Appendicitis in Childhood (Zur Diagnose der Appendicatis im Kindesalter) Schues med Il chusche 1928 Ivin

The author reviews 1 056 cases of appendicitis in children which were operated upon with a mortality of 5 2 per cent In the cases in which the operation was performed on the first day of the illness there were no deaths. All fatalities were due to peritoritis or perstoneal sepsis. In one half of the fatal cases the physician was called too late In one third though called in time he failed to recognize the nature of the condition. The cause of the error in diagnosis was usually a retrocacal position of the appendix or displacement of the appendix in the small pelvis

On the basis of these cases the author discusses the differentiation of the condition from acute gastro-enteritis acute colitis colonic spasm catar rhal jaund ce pneumo occic and gonococcic perito nitis parasitic ileus perforation of Meckel's diver ticulum twisted ovarian cost intussusception tu herculosis of the mesenteric glands acetonæmic vomiting pneumonia the early stage of measles scarlet fever chicken pox tonsillitis pharvingitis ovelocystitis meningitis pelvic osteomyelitis and actinoray cosis He states that when there is doubt as to the diagnosis operation should be performed Operation should be performed early STARLINGER (Z)

Bettman II W Chronic Appendicitis from the Viewpoint of an Internist Ann Int Med 1928

Chrome appendicitis must not be confused with recurrent appendicitis. The latter is an attack of acute or subacute appendicutes The more nearly the clinical picture suggests an acute attack the more certain the curative effect of an operation When there is no history of a preceding attack of acute appendicitis and when the main clinical symptom is

distress in the right lower quadrant of the abdomen operation is almost sure to fail to give relief. If judged not by the pathologist's report but by the chinical results the results of operation for chronic appendicitis are disappointing in 40 per cent of the

cases The belief that epigastric distress associated with iliac tenderness on the right side means ancended is is to be deplored Operations for so-called chronic appendicitis are not harmless. Even when they are performed by skilled surgeons there is a certain unavoidable operative mortality and serious after effects cannot always be prevented. One sequela of appendectomy which is far from uncommon-ileac stasis-has received little recognition or study. This is a distinct clinical entity. It has a fairly charac teristic clinical history and can be recognized by

L ray examination

Of more than 3 000 appendices studied by the author more than 1 300 showed thronic tha, ges of productive inflammation beginning with infiltration of the submucosa with round cells and ending in fibrosis The first changes occur near the up of the appendix and consist in infiltration of round cens about the Meissner ganglia. This process increases until the ganglia may be completely buried in word cells The cells gradually decrease as the fibre is proceeds until the ganglia are embedded in dease scar tissue Corresponding changes are someomes found in the ganglia in the neck of the goll bl Aler

Robdenberg believes that so-called thror is appen dicitis is due to a lesion of the s, mp thetic nervous system which is not restricted to the appe dix alone but is probably general to the splanchnic syst m. Such a lesson would explain the reflex gastric symp toms the attacks of spasm and pain and whi to moval of the appendix or gall bladder or of both does not always relieve the symptoms

SANCEL LANG MED

Hornung R A Contribution on the Relation Be tween the Appendix and the Genitalia (a) Carcinoma (b) Pseudomyroma (Briting at Benehungen zwischen Apperdix und Gentale () Carcinom (b) Pseudomyzom) Zentralbi J Gyanet 1028 ln 1630

The author reports a case of primary carcinoma of the appendix with metastases to both ovenes The diagnosis was confirmed by mic oscopic exami Lubarsch and others have described socalled carcinoids small nodules at the up of the app ndix These occur most frequently at an early age and show a tendency toward infiltrative growth but do not tend to form metastases or to recur Neverthele s they are true epithelial neople as and not inflammatory adenoid proliferations

In the author's case of primary cs cinoms of the appendix the malignancy of the tumor was evided The forty-one year-old from the clinical course patient died of metastases after five months

In the case of a woman fifty nine years of agwith pseudomyxoma of the pentoneum involves the ovaries and appendix the primary site of the condition could not be determined. There are re ports of cases of my xomatous degeneration in both males and females in which the appendix was un doubtedly the primary focus Independent involve ment of both organs simultaneously is highly im probable. However in the author's case the primary focus could not be determined since by the rupture of the appendix particles of mucosa could have been transplanted to the ovary and epithelial prolifera tion from the ovary could have been conveyed to the appendix by way of inflammatory membranes between the appendix and the ovary In such cases the spread is due to implantation of the cells whereas the metastasis of carcinoma of the appendix to the ovaries probably occurs by retrograde transportation of the carcinoma cells through the lymphatics

Lundh G On the Treatment of Prolapsus Recti Acta chirurg Scand 1928 Ixiv 58

SPECERT (G)

The author has re-examined eighty four women who were treated for rectal prolapse at the Malmo General Hospital during the period from 1906 to 1926 In fourteen cases the treatment was conservative consisting of restriction of the diet rest in bed and

lavage of the rectum In sixty nine cases a simple thermocauterization was done after conservative methods had failed. In one case the rectum was fixed to the uterus in connection with an operation for utenne prolapse

Of the fourteen women treated conservatively two were found on re-examination to have a recur rence One of the latter was subsequently treated by thermocauterization but the other refused further

Of the sixty-one women treated by thermocauter ization who were traced all were free from their previous symptoms and two were found to have a very slight degree of prolapse

Dukes C Urinary Infections After Excision of the Rectum Their Cause and Prevention Proc Roy Soc Med Lond 1928 xxii 259

In a series of fifty cases of excision of the rectumfourteen those of women and thirty six those of men -the author studied the frequency cause and pre vention of urinary infection by daily quantitative tests for pourta and repeated bacteriological ex amnations of the urine I yuriz appeared from six to eight days after the operation in the cases of all of the women and in the cases of fourteen men in whom the retained catheter was sealed by a wooden peg In some cases the pus disappeared in four or five seeks but in the majority it was present for a longer period For two or three days before the flow of pus began staphylococci were obtained in pure culture from the urine Later cultures usually showed a mixed growth of coliform bacilli and cocci. The ksim in the female patients and in most of the male fatients was eystitis In a few of the male patients the pus may have been due to urethritis

During convalescence from excision of the rectum urmary infections rarely produce obtrusive symp toms and the presence or absence of an infection can be determined only by regular microscopic examina tions for ous

Urinary infections following excision of the rec tum are due not to the operation itself but to the means used for dramage of the bladder cases of male patients which are reviewed by the author the most common source of such infection was the wooden peg used to close the retained cathe The substitution of a better seal resulted in the prevention of infection of the bladder urine in two thirds of the cases in which it was done and in those in which it failed the infection ran a different course In females the prevention of infection is more diffi cult because of the danger of contact between the catheter and local sepsis

The prevention of urmary infection after excision of the rectum is a task requiring the close coopera tion of the surgeon and pathologist Regular micro scopic examinations of the urine for pus are neces sary. The minimal number of weekly tests required to determine whether infection has occurred and to

determine it early is six

The author recommends that patients who are to be subjected to excision of the rectum be given two doses of vaccine prepared from the bacteria which cause postoperative urmary infections the first dose to be administered as soon as possible after the diag nosis has been made and the second after an interval of from seven to ten days Sammer Kans M D

Dieterich II Experiences at the Glesen Clinic in the Radical Treatment of Rectal Carcinoma (Die Radikale Behandlung des Mastdarmkrebses nach den Erfahrungen der Giessener Klinik) 4rch

f klin Chir 1928 cl 691 The author reviews 161 cases of carcinoma of the rectum which were treated in the period from 1006 to 1027 A radical operation was performed in 234 Amoutation of the rectum was done 73 times with 14 deaths Resection of the rectum the operation of choice when the carcinoma is not too high was per formed 112 times with a mortality of only 88 per cent Combined resection was done 46 times for a high rectal carcinoma with a mortality of 10 5 per

The late results corresponded to those of other clinics. They showed no differences in the various technical procedures. Of the patients operated upon by the combined method 375 per cent were alive after three years 21 8 per cent after five years and 18 8 per cent after eight years FISCHER (7)

LIVER, GALL BLADDER, PANCREAS AND SPLEEN

Horrall O II Bilirubin a Non Toxic Substance J Lab & Clin Med 1928 xiv 217

Using heart lung preparations similar to those of knowlton and Starling and Lambert and Rosenthal

modified for use with one dog the author tested highly purified bibrubin extracted from gall stones of cattle

Heparin was injected intravenously to prevent elotting Bilirubin dissolved in various solutions such as 1 per cent sodium carbonate 1 per cent sodium hydroxide human serum and dog serum was injected into the blood stream of nine dogs with heart lung preparations Slight variations in the pulse rate occurred corresponding to the usual variations in the control heart lung preparations The blood pressure however did not change in any instance although the fat about the heart and the

lungs became deeply colored A 0 662 per cent solution of sodium gly cocholate introduced intravenously for comparison caused an immediate fall in the blood pressure irregularity of the heart action and cessation of activity with acute d latation of the entire heart Sodium cholate 0 47 per cent caused irregularity of the heart action and a fall in the blood pressure. Whole gall bladder bile 5 c cm in 210 c cm of blood caused irregularity of the heart action with a marked increase in the amplitude of the beat. Atropine then caused slowing of the rate but adrenalin had very little effect second injection of bile caused a marked increase in the amplitude of the beat and an increase in the rate but this was soon followed by cessation of the heart action What appeared at first to be the stimulating action of bile quickly paralyzed the

heart The author concludes from these experiments that bilirubin has no effect on the beart

STANLEY H. MENTERS, M.D. Katayama I Bile Acids in Jaundice Arch Int

Med 1928 xlit 916 It has been known for many years that bile acids circulate in the Lody that they are rapidly absorbed

from the intestinal contents and re appear in bile In ten normal persons the bile acids of the blood serum averaged 7 mgm per 100 c cm There were no bile ucids or urobilin in the urine as indi cated by the author's colorimetric test for the former and Elman and McMaster's quantitative test for

the latter An ir crease in the bile acids in the blood serum associated with the excretion of bile acids in the urine was found in eight cases of cholecystitis four cases of disease of the liver seven cases of catarrhal taundice five cases of obstructive jaundice and three cases of cardiac decompensation

Bile acids appear in the urine when the concentra tion of bile acids in the blood serum exceeds 20 mgm per 100 c cm. Acute obstructive or catarrhal saun dice produces a rapid rise in the Life acids of the blood erum from about five to seven times the normal figure. In chronic obstruction however the increa e in bile acids in the blood is only to three or four times the normal This smaller concentration of bile acids in the blood in chronic obstructions may be explained thus

The pro fuction of bile acids in the body is limited Normally these acids are excreted by way of the bile into the intestine and are then re absorbed and enter the circulation Accordingly the bile acids in the body are kept at a constant level. In obstructive jaundice of long standing there is a continuous excretion of bile acids by the kidney the store of bile acids in the body being thereby depleted

STANLEY II MENTER MD

Wolfer J A and Christian L W Panersatic Function Tests with Special Reference to the Quantitative Determination of Facul Amylase Arch Surg 1928 EVII 899

Clinical diagnoses of pancreatic di ease rannot be established by present tests with any reason ble degree of accuracy

I ancreatic tissue is normally present in an amount far in excess of the enzyme requirement. Therefore unless a considerable portion of the gland is disea of there is no increase in diastase in the blood or unne or decrease in the faces or duodenal contents except in cases of obstruction to the outflow of digistrat

The authors review the results of numerous test of pancreatic function reported in the literature None of the verified tests is of striking value except Wohlgemuth's and McClure's determ. tions of facal amplase which indicate obstruction to the outflow of pancreatic secretion

Amylase is the most reliable of the pancreatic enzymes for stool tests The authors used the Hawk modification of the Wohlgemuth test and the starch sodine reaction in preference to the copper reduction reaction Facal amylase determinations in normal persons were made in three groups of five student. each on a fixed diet The diastase seemed to va.v with the diet and a given diet had practically the same stimulating effect on the pancreas in all normal

persons Determinations of fixeal amylase were then made in a series of cases of chronic pancrealitis cholch thiasis cholecystitis choledocholithiasis and cancer of the pancreas These demonstrated that duct obstruction as well as diffuse involvment of the pancreas produces a decrease in fa al amylase Mil involvement of the pancreas however cannot be determined by this method

Experimental work on dogs showed that the administration of 1 25 per cent lactic acid or to per cent sodium bicarbo ate through a jejunal fistula stimula ed pancreatic secretion as determined by facal am lase tests. If a satisfactor, pancrea'c stur 'ant such as purified secretin can be four ! facal amylase tests may be of value

STA LEY H ME THE MD

Geinitz R Hyperglyczemia in Acute Pancreatic Necrosis (Hypergly Laemie bei akuter Pa kreant-krose) Zentralbi f Chir 1928 p 2069.

The patient whose case is reported was a woman of forty four years with total pancreatic nectors of

the hamorrhagic variety. On the fourth day after operation pus appeared in the urine and the blood sugar value was 241 mgm. Twenty units of insulin were then given subcutaneously three times a day At the end of a week the blood sugar was 236 mgm Death occurred eleven days later

The remarkable features of this case were the high blood sugar the good effect of the insulin and the presence of stones in the bile passages which were probably the cause of the panareatic necrosis

WORTMANN (Z)

Henschen C and Reissinger H Contributions on the Clinical Physiology of the Spleen Experi mental Studies of the Variations in Volume and the Contractility of the Spleen Its Cir culation and the Closure Mechanism of the Splenic Artery (Beitraege zur klimschen Physio logie der Milz Experimentelle Untersuchungen ueber die Volumenschwankungen und die Con tractilitaet der Milz neber ihre Durchblutung und ueber die Sperrmechanismen der Midzarterie) Deutsche Zisch' f Chit 1928 ccx 1

The authors studied first the effect of the most commonly used anæsthetics on the volume of the spleen They found that in deep ether anæsthesia there was no change in the blood pressure and the splenic volume remained unchanged. In chloroform angsthesia both the blood pressure and the volume of the spleen decreased but after the anæsthesia was discontinued they increased again. The spleen shut itself off from the rest of the splanchnic area. In the vessels of the brain and intestines the circulatory rate increased whereas in those of the extremities and spleen it decreased The authors conclude that the decrease in the red blood cells with an unchanged hamoglobin content during chloroform anæsthesia

is not due to splenic function Further experiments dealt with the effect of loss of blood of pericardial effusion affecting the heart force and of adrenalin on the volume of the spleen From the summary and conclusions it is seen that ether has no effect on the hæmodynamic function of the spleen whereas chloroform has an irritative ac tion on the neuromuscular mechanism of the spleen causing it to contract Therefore in sepsis chloro form is to be avoided in order to prevent the intrance of a flood of towns and bacteria into the circulation In hamorrhage the spleen often acts as a protective organ equalizing the loss by giving up blood to the ei cu'ation In infusions and transfusions the spleen may prevent overloading by taking up the excess Following pericardial effusion affecting the heart force a decrease in the volume of the spleen was noted Adrenalm decreased the size of the spleen Therefore by painting adrenalin on the surface of the spleen or injecting it into the organ it might be pos sible to avoid splenectoms

The rest of the article deals with the blood supply of the spleen The amount of blood flowing through the organ even in the resting state is astonishing It the beginning of the influence of adrenalin the quant ey of blood is reduced three and one fourth

times but the blood pressure remains high so that the function of the spleen remains constant With cessation of the action of adrenaling the quantity of blood flowing through increases to more than the initial values (enlargement of the spleen begins) When the spleen contracts resistance within it increases so that less blood flows through

Further investigations dealt with the self exclusion of the spleen from the circulation

MISCELLANEOUS

Lemon W S The Function of the Diaphraem 1rch Sure 10 8 TVII 840

The diaphragm develops high up toward the head from a five fold embryonic origin (1) the septum transversum (2-3) derivatives of the mesentery (4) derivatives of the pleuroperitoneal membrane and (5) derivatives of the body wall It then migrates caudally into the corlom and constitutes the first partition dividing the colom into its two primary divisions The division of the colom into two com partments by the diaphragm is therefore a function of the diaphragm

By comparing embryological and anatomical study with a study of function it is learned that when new function is required because of expanding activities and new environmental changes organs develop to make the new function mechanically possible. New organs appear to perform functions Respiration however is a fundamental function which was developed long before the diaphragm de veloped. The diaphragm came to its perfection when the functional activities of mammals required the power to increase pressure within the colom at will and at the same time required protection of the heart and lungs from the effect of such temporary excessive pressure. Development of this function is necessary for the birth of offspring. It is logical then to believe that the primary function of the diaphraem is to provide for increased intracolomic pressure When the diaphragm developed thythmic motion it became a true respiratory organ its contractions increasing the long diameter and the volume of the chest increasing the negativity of pressure and causing air to fill the lungs and blood to flow into the heart It therefore appears that the diaphragm is an organ designed primarily to effect pressure within the corlors by acting in opposition to the muscles of the abdomen and that it has a secondary function involving both respiration and circulation

Surgical procedures and experimental study on animals have challenged the importance of the dia phragm as an organ of respiration. The results of such experimental work are outlined as follows

In animals as well as patients on whom uni lateral phrenic neurectomy had been done paralysis of the hemidiaphragm resulted rendering this por tion of the organ functionless except in the capacity of a partition which divided the coelom into two parts The usual rhythmic movements were carried on by the intercostal and the accessory muscles

modified for use with one dog the author tested highly purified bilirubin extracted from gall stones of cattle

Heparin was injected intravenously to prevent Bilirubin dissolved in various solutions clotting such as 1 per cent sodium carbonate r per cent sodium hydrovide human serum and dog serum was injected into the blood stream of nine dogs with beart lung preparations Slight variations in the pulse rate occurred corresponding to the usual variations in the control heart lung preparations The blood pressure however, did not change in any instance although the fat about the heart and the lungs became deeply colored

A o 662 per cent solution of so hum glycocholate introduced intravenously for comparison caused an immediate fall in the blood pressure irregularity of the heart action and cessation of activity with acute dilatation of the entire heart Sodium cholate 0 47 per cent caused irregularity of the heart action and a fall in the blood pressure. Whole gall bladder bile 5 c.cm in 210 c cm of blood caused irregularity of the heart action with a marked increase in the amplitude of the beat. Atroping then caused slowing of the rate but adrenalin had very little effect second injection of bile caused a marked increase in the amplitude of the beat and an increase in the rate but this was soon followed by cessation of the h art action. What appeared at first to be the stimulating action of bile quickly paralyzed the heart

The author concludes from the e experiments that biliruhin has no effect on the heart STANLEY II MENTZER M D

Katavama I Bile Acids in Jaundice 1 ch Int Wed 1028 xlu 010

It has been known for many years that bile acids circulate in the body that they are rapidly absorbed from the intestinal contents and re appear in bile

In ten normal persons the bile acids of the blood serum averaged 7 mgm per 100 c cm. There were no bile acids or probilin in the urine as indinated by the author's colorimetric test for the former and Elman and McMaster's quantitative test for the latter

An increase in the bile acids in the blood serum associated with the excretion of bile acids in the urms was found in eight cases of cholecystiti four cases of disease of the liver seven cases of catarrhal jaundice five cases of obstructive jaundice and three cases of cardiac decompensation

Bile acids appear in the urine when the concentra tion of bile acids in the blood serum exceed 20 mgm per 100 c cm Acute obstructive or catarrhal Jaun dies produces a rapid rise in the bile acids of the blood serum from about five to seven times the notmal figure. In chronic obstruction however the increase in bile acids in the blood is orly to three or four times the normal This smaller concentration of bile acids in the blood in chronic obstructions may be explained thus

The production of bile acids in the body is limited. Normally these acids are excreted by way of the bile into the intestire and are then re absorbed and enter the circulation Accordingly the bile acids in the body are kept at a constant level. In obstructure jaundice of long standing there is a continuous excretion of bile acids by the kidney the store of hile act is in the body being thereby dept ted

STANLEY II MENTRER WID

Wolfer J A and Christian L W Pancreauc Function Tests with Special Reference to the Quantitative Determination of Facal Amylane A ch Sarg 1928 XVII 899

Clinical diagnoses of pancreatic disease cannot be established by present tests with any real onable degree of accuracy

I ancreatic tissue is normally present in an arrount far in excess of the enzyme requirement. Therefore unt as a considerable portion of the gland is diseased there is no increase in diastase in the blood or white or decrease in the faces or duodenal contents exept in cases of obstruction to the outflow of digitaline

The authors review the results of nume ous tests of pancreatic function reported in the literature None of the venified tests is of strikin value except Hohlgemuth's and McClure's determinations of facal amylase which indicate obstruction to the outflow of pancreatic secretion

Amylase is the most reliable of the pantreain enzymes for stool tests The authors used the lursh modification of the Wohlgemuth test and the sarch rodine reaction in preference to the copper red caus reaction I acal amylase determinations in normal persons were made in three groups of hie studies. each on a fixed diet The diastase seemed to vary with the diet and a given diet had prac halls the same stimulating effect on the pancreas in all no mal person>

Determinations of frecal amy lase were then made in a series of cases of chronic pancreatitis choleli thrasis cholecystitis choledocholithrasis and cancer of the pancreas These demonstrated that duct obstruction as well as diffuse involvement of the pancreas produces a decrease in fecal anylase Mid involvement of the pancreas however cannot be determined by this method

Experimental work on dogs showed that the administration of 1 25 per cent lactic acid or 10 per cent sodium bicarbonate through a jejunal fictula atimula ed pancreatic secretion as determined by faccal amylase tests. If a satisfactor, pancreabt stimulant such as purified secretin ca be found fæcal amylase tests may be of value

STABLEY IL ME THE MID

Geinitz R Hyperglycæmia in Acute Pancreack Necrosis (Hyperglykaemie bei akuter Pankrein-kro e) Zentraldi / Chr 1928 p 2060

The patient whose case is reported was a woman of forty four years with total pancreatic necrosis of

GYNECOLOGY

TITERUS

Damm P The Operative Treatment of Prolapse with Special Reference to the Interposition Method Acta obst et gynes Scand 1928 vil 179

This report is based on 231 cases of prolapse texted in Dialomisestifities in in the period from 1912 to 1926. Interposition of the uterius was done roft times chiefly in cases of marked prolapse. In the cases of 24 women who were still menstruating the operation was supplemented by bilateral resction of the tubes. Amputation of the cervit was performed only when there was bypertrophic clougation. A senile atrophic uterius was regarded as coots a midcation. In cases of hypertrophy of the coordinate of the creamy Sagnet or Forsser method and colpoperineorrhaphy was per formed 29 times.

There were 4 postoperative deaths. The mortality of the interposition operation was 3 8 per cent. Two of the deaths following this procedure were due to intercurrent causes. In a case of strangulation hamorrhage the interposition was followed by vignal hysterectomy. In x case an interposition of portation supplemented by the enucleation of fi

bromata was complicated by infection One hundred and one of the patients were subsequently restained at the hospital and 70 were questioned by letter Of the latter 10 were restained by their family physicism. The incidence of the patient of their subsequent of the properties of the patient of the properties of the patient of the patie

Phaneuf L E The Benign Lesions of the Uterine Cervix and Their Treatment New England J Med 1928 excix 1243

The common benign lesions of the cervix are endo cervicitis lacerations and polypi Endocervicitis may be secondary to gonorrhota or postpartum or postabortal infection It usually persists after infec tion of the other genital organs has subsided Sturmdorf Curtis Matthews and Davis have dem onstrated that chronic endocervicitis is an infection of the cervical mucosa which may spread to the deeper cervical structures and the parametria tubes ovaries and pelvic peritoneum. Cervical erosions follow endocetvicitis In chronic infections the cer vical mucosa is everted and the mucosa of the por tio vaginalis in the region of the external os develops a circumscribed area of glandular proliferation Under the stimulus of the infection the cervical c)lindrical epithelium extrudes itself on the outer

portion of the cervical rim replacing the normal stratified epithelium and thereby forming the ero sion or red area found in that region. Accordingly, the erosion is not an ulceration but the formation of new glandular tissue which may be regarded as precancerous. When the glands become occluded and filled with mucus they are called nabothan cysts.

Endocervicitis may be treated by the local application of antiseptics by cauterization or by radium irradiation. In the severe forms, the best results are obtained by the tracheloplasty of Sturmdorf.

The treatment of lacerations of the cervix varies with their severity. Slight tlears usually heal spon taneously or respond to cauterization and dia thermy. The more severe lacerations may be treated by the Emmett or the Sturmdorf operation. Obstetrical lacerations of the cervix should not be repaired until the cidema has completely subsided and normal involution of the uterus has taken place.

Cervical polypishould be removed. Their removal may be simple when they are single, but becomes complicated when they are numerous. Occasionally amputation of the cervicabove the polyp bearing area is necessary. In some cases curettage of the base followed by small doses of radium will effect a cure

Adequate treatment of endocervicitis and of cervical lacerations and polypi will relieve the symptoms of these conditions and lower the incidence of cancer of the cervix

SAUGE J FOGELSON M D

Fitzgibbon G Fibromyomata Irish J VI Sc 1928 No 36 735

Fibroids develop as a rule between the ages of thirty and thirty five years and reach their full growth in a few years years and reach their full growth in a few years year their their decomment they remain quiescent until the hances of the menopause beam when in the majority of cases they reveal the symptoms. Designating the properties of fibroids terries are more prone to develop fibroids than matriced women. Fibroid are a cause of stendity, but stendity is not a cause of fibroids. The association of fibroids with pregnancy is uncommon. The incidence of malignancy in fibroids is about 2 per cent. The malignancy is an associated rather than a secondary development.

Before the menopause myomectomy has a large place in the treatment of hbroids. When pregnancy is complicated by fibroids causing symptoms myo mectomy may be performed during the early months with safety. Myomectomy is not followed by the ill health that results from hysterectomy and does not lead to trouble later at the menopause.

The author reviews 210 operations for fibromata of the uterus ABRAHAM A BRACER M D

Compensation was so good a factor in respiration and the diaphrigan of such secondary importance that the movements of the cheet wall as a whole coff any of its parts were not influenced by the paralysis. This conclusion is established by observations climing and examinations kymographic records and meas call examinations kymographic records and meas consistent with the paralysis observers were unable to distinguish the phrenic refused animal fraint from the normal animal. Patients with the phrenic neurectomy show the same clinical result.

result

2. After unilateral section of all of the intercostal
nerves in dogs the animals lived confortably, and
compensator, function was so comple te that it was
with difficulty that any loss of either thoracie more
ment or response to exercite was seen. This was true
also when the intercostal mere-as were bulsterably
extended to the compensation of the component of the compon

tion to the loss of muscular equipment 3. Animals with hall the disphragm paralyzed or with the whole muscle rendered functionless regained the immediate loss in vital capacity before the surgical wound healed and emoved activities as strenuous as those enjoyed by normal surmals. The spirometer showed that they made use of the same amount of air in a unit of time as their normal mattes of the

same weight I attents responded in the same way
4 Dog and man can live and maintain tidal air
requirements when all diaphragmatic function is lost
and when all but the diaphragmatic action is lost

and when all but the inspiring matter action is lost 5. In a study of the effect of unlateral phreni colomy on the ability of the lung to aspirate bronchist material into remote portions of the bronchist tree it was fourd that the lung was put at rest by short cring the long diameter of the thorax and by pre

venting movement in that diameter but that suction during inspiration was sufficient to cause assert or of the bronchial material

6 The disphragm is a muscular partition dividing the ceelom into two parts. It two chef functions are the provision of an increase in pressure within the celom when this is required and a respirator function dependent upon its ability to contract this thinically and synchronously with other repursators muscles.

7 Compensation is so powerful that displiring matic paralysis does not greatly after respiration or circulation and has little if any effect on other muscles of respiration.

Caldbick S L Two Cases of Visceral Fistula Treated without Secondary Operation S t Clin A Am 1928 vii 1337

Caldbick reports two cases of visceral fistals de veloping after abdominal operation and urges con servative treatment of such fistals.

In one case the fixtual developed on the for the day after an operation for the excision of a personate gastire, there and removal of the diseased spopular and gall bladder. It drained gastire contents. The patient made a complete recovery and left the bis putal on the thritteth day.

In the other case the duodenum was mourd in decuse of a difficult operation for stones in the common duct. It was immediately repaired bat of the duod of the duod

resulted
In the management of these cases to per cent
glucose and physiological salt outloo were used
freely. Let us P Gausse 1D

relation to the menstrual period whereas in 17 it occurred within three days before or after the period and in 22 it occurred during the menstrual flow At the time of menstruation to of the women had been given treatment and 20 had not. The medication which was followed most frequently by adnexal involvement was that which caused the most marked general reaction-the use of the various silver and dve preparations Vaccine therapy had much more favorable results. High fever seemed to be particu larly dangerous since in the cases of 33 women who were given general treatment with various prepara tions and who had no fever there was no adnexal involvement. Accordingly the author believes that Zieler's vaccine treatment should be used more extensively but not during the menstrual periods As local treatment he recommends I ust a capsules together with the use of cervical suppositories. In the cases reviewed the incidence of adnexal involve ment after such treatment was only 6 per cent

Of the 49 women who had adnexal involvement when they were admitted to the hospital the condi-

tion was chronic in 32

Of 122 women who were traced 19 had had 1 recurrence 2 had had 2 recurrences and had had 3 recurrences In 12 instances the cause was believed to be the menses or the treatment and in 5 cases both the menses and the treatment

In the cases of gonortheea of the uterus a cure was obtained in 80 per cent (at least 3 provocative treat ments with 7 microscopic examinations) whereas in those with adnexal involvement the incidence of cure was 86 per cent

Komocki W A Case of Bilateral Anglohyper nephroma of the Ovary (Ein Fall von beider sengen Anguohypernephroid des Ovariums) 1rch f path Anal 1928 celvir 70

Bilateral tumors were removed from the small belys of a woman thut; seven years of age who had menstruated normalls up to the day of opera to. The tumors were composed of dark red areas (blood vessels) and bright yellow areas (fatty cell columns with a honey comb appearance). The dignoss of hypernephroma was made from the histogral findings. The author assumes that the tumors developed in the ovaries as no trace of these organised to the control of the columns with a day of the columns with a consideration of the columns with a forestorm. The author assumes that the tumors developed in the ovaries as no trace of these organised to the columns of the columns

EXTERNAL GENITALIA

Greenhill J P Vaginal Discharge Due to Tri chomonas Vaginalis in J Ob 1 & Gv 16c 1928

The trichomonas vaginalis is a parasitic flagellated protozoan which causes a persistent vellowish green bubbly vaginal discharge. It is very difficult to discover in stained smears but is easily identified by the hanging drop method.

(reachill describes the technique of collecting the specimen from the vagina the method of setting up the hanging drop slide and the characteristics of the

organism. His method of treating the vaginal discharge consists in the use of green soap methylene blue glycerine and lactic acid. Of forty eight patients subjected to this treatment and followed up subsequently 80 6 per cent were found to be cured in the following the green were found to be cured right months. Havery B Matriews M D

Bissell D Genito Urinary Fistula in the Female with an Appreciation of Sims and His Work Proc Roy Soc Wed Lond 1928 XVII 179

Bissell urges more general use of the Sims method of closing genito urinary fistulæ in the female. In describing the technique of this operation he empha sizes that the denudation around the vaginal orifice of the fistula should be broad and elliptical and should extend down to the immediate region of the bladder mucosa but never into it The needle should penetrate deeply the vesicovaginal septum but should not enter the bladder mucosa A silver wire suture is attached to a carrying thread which in turn is attached to the needle. The wire loop by which the wire is attached to the carrying thread should be crushed so that it will meet with minimal resistance on being pulled through the tissues. The wires should be twisted only enough to appose the de ABRAHAM A BRAUER M D nuded tissues snugly

MISCELLANEOUS

Benthin W Genital Hæmorrhages in Old Women (Centale Blutungen im Greisenalter bei Frauen) Deutsche med Wehnschr 1928 by 727

In 56 of 131 cases of genital hamorrhages in old nomen the bleeding was due to carcinoma. In 75

cases there was no neoplasia. The causes of genital harmorrhage in old women include senile adhesive colpitis, ulceration associated with prolapse ulceration due to the pressure of a pressary urethral polyps pruritis leucoplakia with that and various properties of the genital tract are cervical polyps erosions of the genital tract are cervical polyps erosions of the portion trauma injuries from coults ubserculous ulcers and varices. Those in the body of the ulcrus are submucous momata careniomata and beingin are submucous momata careniomata and beingin

In the cases reviewed inflammatory processes in the redometrium were common their innedence be ing more than 50 per cent in It a cases they were associated with an ovariant turior. Witcous polype were found in from 25 to 30 per cent of the cases were found in from 25 to 30 per cent of the cases of the common strength of the cases of the case

Before treatment is begun it is important to make in exact diagnosis of the location and cause of the hamorrhage. In the examination the bladder must not be forgotten. Micro copic examination of removed tissue is essential. Thaler II Lipoma of the Uterus (Ueber Uterus lipome) Arch f Gynaek 1928 czkiny 350

Two cases of ipoma of the uterus are reported. The first was that of a woman suty five years old whose menopause had occurred seventeen earn before. For one year the patient had noticed en largement of the abdomen associated with emacia tion. I stamilation revealed a spherical uterne tumor which extended three fingerbreadths above the umbilities. Total extripation was done. In the right wall of the uterus there was an intramuscular right wall of the uterus there was an intramuscular regarder of the contraction showed the tumor to consist partly of pure lipomatous tissue and

partly of fibrolipomatous tissue

In the second case the uterus was removed for
colloid carcinoma and the right uterine wall showed
an intramural lipoma the size of a cherry

Lipoma and fibrolipoma of the uterus have been reported in the literature only five times

nnes Neumann (G)

Schmitz II The Diagnosis and Treatment of Uterine Cancer New Linguish J Med 1928 CKCix 1140

Carenoma of the cervix begins as a solitary focus a nodule. It never grows in healthy tissues or organs. The second stage of carenoma is that of ulceration. This is due to the characteristic tendency of carenoma cells to decay because of their poor blood supply. When the carenomators uter is touched with an application it bleeds freely and the bleeding is attental and continuous. When the case is seen at the continuous of the continuous that the continuous that is the continuous that it is the continuous that i

The first sign of cancer of the body of the uterus as rregular bleeding. This cancer is especially deceiving because the external os and the vaginal micros may appear perfectly normal. When a thin stream of bright red blood excapes from the cervical canal on the introduction of a sound and especially when the tricking of blood continues for some time after the manupulation malignance should be suspected. The cervical canal should then be didated and an immediate frome section crammation made of

curetted tissue
The author classifies carcinomata into four

r The clearly localized carcinoma. This tumor is the size of a navy bean and has not affected the mobility of the uterus

mobility of the uterus

2 The borderine carcinoma There; a wide or
peripheral invasion of the cervit or bod; of the
uterus the paracervical bissues have a doughty con
sistency and the mobility of the uterus is decreased

3 The inoperable carcinoma There is white tion of one or both parametria with or without regional lymphatic involvement and with or without invasion of adjacent organs. As a mass the structures are still movable.

4 The terminal carcinoma This tumor is characterized by fixation of tissue wide local extent

of the disease and distant metastases

Cases in Group 1 are treated either surpoilly or with radium those in Group 2 with radium and the \rays by a combined method which is desembed those in Group 3 by radium and \ray treatment and those in Group 4 by pallative measures A cancer that is fixed always offers an unfavorable prognosis

The five year end results obtained in 331 cases of primary carcinoma of the uterine cervix treated with the combined radium and X ray method were as follows

T tal	Fτ	y at halfa
340	No.	Page 1
21	18	,8.1
43	20	41 63
161	20	12 42
3 161 4 100	00	00.00
	HARRY W	FIXE M D
	33 49 161	%

ADNEXAL AND PERIUTERINE CONDITIONS

Reisner A The Relation of Local and General Treatment of Gonorrhous in the Femile to Extension of the Condition to the Uterlas Adnera (Die Bedeutung der ertilman und all e mennen Betandings or stagen ber 18 beb just de weitere hage verplang auf die Gebarentutena hanges Zitche f Gelenta u Gynack 1928 mu

In the cases of any women with ponorheas who were given careful study (regular examinations of the atheras by an encologist) Retiner found that rop per cent the site of the gonorrheas infection was the uterine cervix. The case of the 2 arms of the infection was the backers and yave been that the blood and serum in the pureprish and the proposition of the uters and the propulsion of its contents in the direction of the uters and the propulsion of its contents in the direction of the tutes and the propulsion of its contents in the direction of the uters and the propulsion of its contents in the direction of the athera was did taxion, and foreign body irritation? Therefork author gives fairing dones of paparteria day, dung author gives fairing dones of paparteria day, dung

abbittee threat of gonorer box.

One hundred and thirt; lower (as per cent) of the women had adnexal disease. In 40 rase the adner were diseased when the patient entered the bogoid in 67 the adnexal involvement began during platint a stax in the hospital and in 6, in the patient and the state of the sta

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Guthmann H The Practical and Scientific Value of the Lateral Roentgenogram in Pregnancy (Was lesste die seitliche Schangerschaftsaufnahme furr Wissenschaft und Pravis?) Zentralbi f Gynack 1928 hi 1005

The author reports his studies with short distance exposures which have the advantage of placing a smaller load on the tube but require somewhat more correction of magnification errors and his studies with exposures made at a distance of 2 meters in which the pelvic diameters on the plate are always multiplied by the factor o or In the latter he in creased the current to from 80 to 100 kv which in senal roentgenograms proved to be the most suitable current When a lesser voltage is used the roent genograms show less contrast and when a greater voltage is used the picture is rendered less distinct by scattered rays Nevertheless it is possible also with 140 kv and a therapy apparatus to make suffi tiently distinct roentgenograms (6 ma exposure of thirty seconds Potter Bucky diaphragm and o 2 mm of copper)

For exposures at a distance with a diagnostic apparatus the factors necessary are a distance of 290 cm 82 ky 50 ma a filter of 0 2 mm of copper and an exposure of two hundred and thirty, seconds seemed to the corresponding factors are a distance exposures the corresponding factors are a distance of the corresponding factors are distanced by the corresponding factors and the corresponding factors are considered as a considered factor of the corresponding factors are considered for the corresponding factors are considered factors and the corresponding factors are considered factors.

The lateral view shows the form of the sacral contacts and the position and mobility of the except. The author found the promontorium at the level of the pelvic inlet in only about 15 per cent of the eases. In the majority it was more or less higher Therefier it is impossible to determine the level of

the pelvu inlet correctly by the method of Fabre With regard to prognosis of labor in cases of narrow pelvs the letteral exposure gives more information than the letteral exposure Witherin a case of generally contracted pelvi them a catve me feature of the child's head and of the search with the search with the search of the child's head and in the search of the s

The inclination of the symphysis and of the pelvis may be determined exactly by the lateral exposure Also by this method it is possible to measure the diameter of the child's head exactly and to deter

mme the shape of the head its level in the pelvis (which is of importance when the abdominal wall is fat or rigid) its engagement and its position Annaalies of position are detected more readily in the roentgenogram than by external palptition. The author frequently found a posterior parietal presents but this was usually corrected spontaneously in the further course of the labor.

Senal lateral exposures during the progress of labor give a good insight into the mechanical processes of labor and will probably clear up many of the problems that as yet are unsolved

KAROTH (G)

Eufinger H The Function of the Liver in Pregnancy II The Occurrence of Viscerosesroy Hepatic Bile Reflexes in Pregnancy (Dr. Leber funktion in der Schwangerschaft If Das Auftreten viscerosensibler Lebergallenreflexe in der Schwangerschaft) Arch [Gynark 1928 excurs 1928]

It was shown by Westphal's investigations that during pregnancy there is a variation in the function of the biliary tract. In a review of the case histories of the Frankfort Gynecological Clinic the author found that in 4 070 deliveries in a period of three years pronounced gall stone colic occurred 24 times and icterus 15 times Eufinger believes that in the viscerosensory reflexes of Head and Mackenzie we have phenomena which are of value in the diagnosis of disease of an internal organ, especially since these reflexes can be elicited after the other clinical signs have disappeared and therefore reveal latent conditions of irritation According to Head and Mac kenzie the spinal cord segments for the liver and biliary tract are the seventh to the tenth dorsal segments

The authors investigations indicate that viscrossensors shi reflexes in the so called Head zones can be demonstrated for these dorsal segments in about 35 per cent of cases of normal pregnancy. As the pregnancy progresses the probability that the reflexes can be elucted becomes greater. No difference is found between primipaire and multipairs. In the pureprenium no zones are discoverable

parts: In the pureperium no zones are discoverable, when the continued of the continued on the continued of the continued on the continued on

The purpose of this article is to emphasize the fre quency of benign causes of genital hemorrhages in old women and the importance of a correct diagnosis

Roinwan(S)

Williams E The Acute Pelvis Bru W J 1928 11

The author divides his cases of acute pelvic condtions into those with fever and those with shock Of the conditions in the first group, he discusse chiefly acute salipagitis and of those in the second group extra utenne pregnancy, and twisted ovarian cyst He emphasures the importance of thorough examina sufficient empoure at operation to allow thorough exploration. Call II Davis M.D.

Jarcho J The Artificial Production of Sterility
Am J Obst & Grace 1928 xv1 813

The artificial production of sterility is a subject of much importance to the physician who is called upon to advise married women who are physically unfit to bear children. It is generally agreed that such women should be instructed with regard to contraceptive technique or if they become pregnant subjected to therapeutic abortion.

The use of contraceptives is inconvenient and in reliable and as it interferes with normal intercourse it must be more or less harmful to the nervous system. Surgically induced sterility is usually

During the last few years considerable work has been done with regard to the biological prevention of conception in female animals by the injection of placental or ovarian extracts of pregnant animals the transplantation of ovaries of pregnant animals

and the parenteral introduction of spermatona. Jarcho states that although it is still in the reperimental stage biological immunization of the female organism to seminal products (spermatotom) offers great promise as a clinical means of produces temporary sternity. As the method will be causely in the hands of the physician it can be used only for therapeutic purposes. Havery B Materiaes Management Lane Roberts C. S. Abdominal Pain in Pregnancy Lancet 1018 CCXV I 88

Among the most frequent causes of abdominal pain in pregnancy are constipation flatulence and the stretching of an unduly sensitive uterus the abdominal skin and the round ligaments Cases in which the pain is of organic origin may be divided into three groups (1) those in which the pain seems to be limited to the uterus (2) those in which it originates in the adnesa and (3) those in which it is

due to extragenital conditions Pain limited to the uterus may be due to undue stretching of the uterus such as occurs in dual pregnancies and polyhydramnios to fibromata particularly those of the subperitoneal pedunculated type multiple fibromata causing pressure and fibromata undergoing degenerative changes to con tealed hamorrhage to hydatiform mole causing sudden stretching of the uterus or to rupture of the

Among the causes of pain originating in the adnexa are the rupture of an extra uterine pregnancy ovarian tumors causing pressure rupturing or undergoing axial rotation or degenerative changes salpingitis and salpingo conhoritis blood in the pentoneal cavity from the rupture of a tubal ovarian or cornual pregnancy or an old uterine scar

and abdominal pregnancy near or at term Extragenital conditions which may be the cause of pain during pregnancy include the pielitis of pregnancy acute appendicitis intestinal obstruction cholecystitis and allied gall bladder lesions acute pneumonia renal ureteral and vesical calculi and acute suppurative pelvic peritonitis

HARVEY B MATTHEWS M D

Pohl A The Early Diagnosis Etlology and Treat ment of the Pernicious Type of Anæmia in Pregnancy (Zur Fruehdiagnose Actiologie und Therapie der perniciosaartigen Gra aditaetsanamie) Zentralbl f Gynaek 1928 ht 1384

The increase in the number of reports of permicious types of anæmia in pregnancy has been due without doubt to the work of Lsch which was published in 1917 As a rule the diagnosis is not made until the anamia is well developed. The author believes that the case he reports in this article represented the first stages of the condition as several of the chief symptoms mentioned by Esch were absent and that the cure was due to interruption of the pregnancy

The patient was a twenty year old primigravida with no history of chlorosis Since the second month of her pregnancy she had had a cystopy elitis In the fourth month the hæmoglobin was 50 per cent In the sixth month the hæmoglobin was 42 per cent the erythrocyte count 3000000 the color index o 66 and the leucocyte count 8 300 Anisocytosis and polychromasia were noted Smears showed only 9 per cent of lymphocytes and no nucleated red cells

One gram of reduced iron was administered daily and injections of solarson were given Later Fow ler a solution was used

During the course of the illness the erythrocytes decreased in number. The hæmoglobin at first remained stationary and then increased. The color index rose but was never above i Macrocytes appeared in large numbers. The urine showed uro bilin and the cystitis persisted

A diagnosis of anæmia of a pernicious type having been made abortion was induced in the seventh month of the pregnancy There was a very slight loss of blood with a high rise in the temperature

The interruption of the pregnancy was followed by marked improvement in the subjective symptoms and in the blood picture. Five weeks later the hæmoglobin was 62 per cent and the ervthrocyte count a ooo ooo After three and a half months the hæmoglobin was 74 per cent and the color in det o 8

Throughout the illness there was no ordema icterus or enlargement of the spleen

According to Esch the variations in the blood picture are so frequent and pronounced that the diagnosis remains uncertain during life and is con firmed only by postmortem examination

The author discusses the symptoms that have been described and emphasizes the difficulty of differentiating the condition from chlorosis. He assumes that in both conditions the cause is a disturbance of internal secretion and that therefore there may be a transition from chlorosis to the per nicious form of anæmia. In this and in the belief that the anæmia is not a distinct clinical entity he disagrees with Esch The frequent occurrence of the anæmia in certain localities such as Zurich and Parma he ascribes to poor constitution of the inhabitants evidenced by a functional weakness of the bone marrow Oettinger's question as to the possibility of a recurrence of the anamia in a new pregnancy he answers in the affirmative on the basis of the literature. He does not approve of steriliza tion but believes that interruption of pregnancy is imperative when the diagnosis is made early

Bocn (G)

Jagic N The Indications for the Interruption of Pregnancy in Diseases of the Circulatory Sys tem (Ueber Indikationen zur Schwangerschafts unterbrechung bei Erkrankungen des Zirkulations apparates) Bestr & gerichtl Med 1928 viii 26

In the management of ca es of cardiac defects in which pregnancy may be allowed to continue it must be borne in mind that external injuries may cause an exacerbation of the cardiac condition women seem to be especially disposed to recurrent endocarditis following anginas and infections When a recrudescence of endocarditis develops there is usually the picture of cardiac insufficiency because of involvement of the heart muscle. Therefore the management of the case must include protection against infection proper regulation of rest and activity and regulation of the diet to prevent un necessary meteorism. The aldehyde reaction in the urine after activity as the sign of stasis in the liver

Grossen R J and Moore S Cholecystographic Studies in Pregnancy Am J Obst & Gynec 1928 X11 840

In a series of twenty two pregnant women cholecystography was attempted by the intravenous method with the use of the sodium salt of phenol tetraiodophthalein. The technique and dosage re commended by Graham Cole Copher and Moore were employed The chief purpose of the examina tions was to determine whether changes in gall bladder function occur during gestation which would explain the role of pregnancy in the production of gall bladder disease. In the cases of four women with signs of the toxemia of pregnancy the attempt was made to determine whether the estimation of the retention of the die in the blood stream combined with cholecystography is a more delicate method of demonstrating a decrease of liver function than the dve retention test alone. The possibility of diffusion of the cholecystographic dye through the placenta was allo considered all films being carefully studied for the image of the fetal gall bladder

The method of making liver functional tests with sodium phenoltetraiodophthalein is quite similar to that used with phenoltetrachlorphthalein or brom sulphthalem Function is considered normal when the retention of phenoltetraiodophthalein in the blood serum is less than 12 per cent one half hour after the injection and less than 4 per cent one hour after the injection and when the sum of the one half

hour and hour retentions is 16 per cent In the four cases of toxemia the test was carried out in the twelfth fourteenth to sixteenth fortieth and fortieth week of gestation respectively. Three of the twenty two women had a retention of from s to 10 per cent but showed no signs of toxemia In one case cholecystography failed on account of the enormous size of the patient. One patient showed clinical evidence of cholecystinis. If these cases are subtracted from the total number there were thirteen apparently normal cases without gall bladder as mptoms to terms or dye retention in the blood In six cases in this group there was non visualization and in two cases only faint visual ization of the gall bladder. Therefore in eight of the thirteen cases abnormal cholecystograms were obtained and in only five of that number or 38 4 per cent of the apparently normal subjects were the cholecystograms normal. Three of the women with normal cholecystograms were in the thirty sixth to fortieth weeks one was in the twentieth week and one was in the twelfth week of gestation

A possible cause of the failure of visualization of the gall bladder in the cases of normal pregnancy may have been increased intra abdominal tension or pressure on the organ or its ducts which prevented the dye from entering the vesicle or so affected the gall bladder that it was rendered unable to concen trate the bile Regarding the first of these two possibilities the authors call attention to the fact that though there were five normal cases with non visualization of the gall bladder in the thirty fourth

to fortieth weeks of gestation there were also three similar cases with normal cholecistograms. This indicates that the mechanical factor of increased intra abdominal pressure if it is a factor at all is a most inconstant one

With regard to the possible loss of the bile-con centrating power of the gall bladder in the late months of pregnancy the authors state that if such a loss occurs it is overcome very rapidly as in two cases with non visualization of the organ before delivery there was normal visualization two weeks after delivery The authors experience with chole cystography in conditions other than pregnancy has shown that if the concentrating power of the gall bladder is lost it is not regained until after a greater

period than fourteen days The authors conclude that non visualization of the gall bladder in normal cases is due to the tech nical difficulties of making roentgenograms in the cases of pregnant women near term. They call at tention to the fact that in such cases the \rsvs must pass through a large volume of tissue and find which produces scattering with loss of definition and that the increased volume of the abdominal contents increases the distance of the gall bladder from the film Their theory is strengthened by the fact that in small subjects the gall bladder was more readily visualized than in large subjects. If this conclusion is correct it is the size of the abdomen and not the month of the gestation or any intrinsic change

in the gall bladder that is responsible for non visualization

In the cases of toxemia the combination of the test of dye retention in the blood and cholecyst ography was not found to be more sensitive than the dye retention test alone The one fatal case of severe toxermia with a 50 per cent die retention in the blood and good visualization of the gall bladder indicated that the damage to liver function produced by this condition must exceed so per cent in order greatly to influence cholecystography

In none of the cases was a fetal gall bladder ob served Neither were traces of die found in the blood from the umbilical cord It seems evident therefore that the cholecy stographic dyes do not

pass through the placenta

The cases with visualization of the gall bladder showed no delay in the emptying of the gall blad let such as was noted by Mann and Higgins and no other indication of stasis However the emptyin time of the organ was not determined by the use of

the fat meaf

In conclusion the authors state that no e sential difference in the functional activity of the gall bladder in pregnancy was observed hypercholesteræmia which is normal in pregnancy may be a factor in the development of cholelithis is and cholecystatis it is possible also that repeated puerperal infections which are so mild as to escape observation may be responsible for the greater inci dence of these conditions in women who have borne SANUEL J FOCELSO UD children

delivery or because of uterine fatigue delivery is followed by hamorrhage

Falure to make a diagnoss. This difficulty is due chaffy to the fact that in all cases of occupy to the fact that in all cases of occupy posteror position the head is somewhat extended and interfore the position formatelle upon which the diagnoss depends to a great extent hes so far lack and so high that it is not reached on vaguil exmansion. The obstetrician will usually be able to piptie the posterior fontanelle of when he deed easily the anterior fontanelle in which the substruction of the state of the substruction of

saure as ir posteriory us possible

3. An attempt to deliver the baby through an
incompletely dilated cervur the first stage of labor
in casses do occupy bosteror position being frequently
produced. This strore is presented by deministering
produced. This strore is presented by deministering
in the contract of the contract of the contract
with the stage that dilate at the contract
with the stage that dilate at the contract
and will not descend under the force of strong
second stage pains the use of a drug to stimulate
uttenne contractions such as pruturn and the ap
photon of an extremely tight abdominal belt cause
diagerous pressure on the head.

When the diagnosis of posterior position has been made and after sufficient delay in the second stage of labor no progress occurs operative interference

becomes necessary The method of attempting delivery of the head in the posterior position is to be condemned as it is because of this position that the head does not descend The force required to deliver the head while it is in the posterior position is entirely un justifiable. It is the author's rule never to make traction upon a head in the posterior position and always to regard such a position as an abnormality to be corrected. The procedure of drawing the head down to a lower level of the pelvis and then totating it with forceps is also to be avoided as the traction necessary to bring the head down to the pelon floor is apt to cause great damage. The ab normality of position should be corrected at the pelvic plane in which the head is found. Traction with simultaneous rotation of the head is to be cordemned because of the danger of injuring the birth canal by the twisting movement

Delice recently adsociated contains the head through repeated small ares by continually re ad puting the forcess until the head as brought into an aftereo postuon in the authors opinion this aftereo postuon in the authors opinion this the child in the control of the poor splication of the broad postuon of the the procedure are applied to the procedure are opinion of the child of the poor of the procedure are applied to the procedure are applied to the procedure are applied to the protain of the procedure are applied to t

re applications of the forceps

Vanual rotation of the head is successful in many cases but in this maneuver the fetal head must be displaced to a higher pelvic level when it is grasped by the whole hand inserted into the vagina and is

very apt to return to its posterior position before the forceps may be applied unless the scalp is caught with a volsellum forceps—a very undesirable pro

In the Cleveland Maternity Hospital occupity potentior position as managed in a defailite routine manner. There is no interference in the first stage of labor unless an emergency develops. Fain is practically abolished by adequate anexishesia and normal progress is permitted until full dilatation results. It is usually possible to determine within the first bour of the second stage whether the head will rotate anteriorly or not. Under no condition is miterference defailed until the uterus becomes tonic ally contracted or the head becomes impacted. Delay makes operative interference difficulty.

When the head is above the pelvue brim or in the brim podalic version is the procedure of choice. This usually eliminates the use of high forcers the only exceptions being cases in which the uterus is so tonically contracted as to render version danger out. When the head has passed the pelvue brim rotation with forcers having solid blades is done. The steem in the procedure are as follows.

I Manual dilatation of the maternal soft parts
2 Cephalic application of the forceps. This is
the reverse of the usual application as the concavity
of the forceps is toward the sinciput

3 The blades of the forceps are brought in line with the long diameter of the head by depressing the handles before locking them

4 The forceps are locked and the handles then rased and carried around no a sweeping circle in such a way as to keep the blades constantly in the same axis. The rotation is continued until the occuput is under the symphysis. There is absolutely no traction on the head during the rotation Occasion ally if the head seems to be slightly impacted it is loosened by a slight upward pressure.

5 After the rotation and before the blades are removed enough downward traction is made to fix the head in its new position

6 The forceps are then removed and re applied as to a normally placed head

SAMUEL J FOGELSON M D

Ivens F The Scope of Cæsarean Section Bril 3f J 1928 ii 1166

After reviewing the indications for cæsarean section the author describes her technique for the classical operation which in the main is the generally accepted technique. This operation was per lormed in 195 consecutive cases without ragard to formed in 195 consecutive cases without ragard to the indications were those usually recognized. The indications were those usually recognized in the indication diblor of forcept delivery had been attempted or other vaginal manupulations had been done it was per formed as in a clean case. No special preparation of the vagina was carried out. The only precautions taken in cases with suspected infection were draining of the abdomand cavity and the administration of of the abdomand cavity and the administration of

of cardiac origin is often positive when other signs of decompensation are absent

In general interruption of pregnancy is indicated in all cases in which disturbances of compensation do not respond in a short time to cardiact tonics. The danger is greater in women past thirty ears of age than in those who are younger. It should be borne in much that even when the pregnancy is well tolerated in such cases the cardiac condition may become worse later.

In mitral insufficiency interruption of the preg nancy is to be considered only when marked signs of cardiac insufficiency fail to respond in a short time to cardiac tonics and rest Hypertonia with hyper trophy of the heart due to arteriosclerosis syphilis and infectious agents may cause neakening of the heart muscle after the thirtieth year of age. The probability that this sequely will develop is greater the higher the blood pressure in the stage of com pensation and the more marked the cardiac hyper trophy. In such cases a decrease in the blood pres. sure is usually the first sign of the acakening of the heart Cardiac insufficiency tends to develop also in diseases of the lungs and pleura fibrous sclerotic processes pulmonary emphysema and kyphosco liosis In these conditions interruption of pregnancy is indicated by signs of stasis pointing to weakness of the night least

In hyperthyreosis and Basedow s disease the cir culatory system is always affected and interruption of pregnancy is indicated by dilatation of the heart

especially when the general condition is poor Interruption of pregnancy is indicated also by se

ver cyanosis in association with congenital defects. The author edvocates interruption of pregnancy unconditionally in the cases of women with cardiac defects who have a history of decompensation diariag a previous pregnancy and in the cases of women with severe movications marked observe severe kyphoscolicosis and mitral denois associated with valvoist the reputipation. Even when labor is well horse irreparable disturbances of compensation may develop up the purperuim

In case of mittal stenous the behavior of the left auride mit the especially considered. The mutmut must not be judged by its inten ity. In actic it sufficiency with disease of the mittal or becaused valve and in percentius with obliteration the pregamen must be interrupted. I cut in measurities with considerable distinct of the coronary vessels and heart mustle without direct tages of the latter. If in such cases the nortic valve is also musticated in the coronary vessels and heart of the coronary vessels and

LLEIN (G)

Titus P The Influence of Blood Chemistry Studies on the Present Treatment of Prejamory Tomenias J Med Sec A Jersy 1928 XXV 772

It is generally believed that the tomcoses of prejamory are the result of a deficiency of glycogen due

to insufficiency of the carboh-date mittee of the demands of letal and placental growth a distribution of his pertrophy. The suthers inwest, atoms have demonstrated also a close relationship between sealing drop in the blood sugar and the occurrence of no vulsions. The success of the intra-tonous administration of destrone solution in both hypermess and ect impain as typlaned by the blood chemistry. The surface of the properties of the properties of the surface of the properties of the properties of the properties of the process of the proc

The treatment of hypercenciss and eclargess is essentially the same. In mild cases of hypermess, the patient should have frequent feedings of smil amounts of food with a high catebolydrist content and one or two hours of rest in the morning and afternoon. In the more severe forms she should be hospitalized nourablement by mouth should be with held and intraverous superious of 3 per cent for toose (soo c cm at a time) should be given two or three turner duly interestant? Glorid and brundler three turner duly interestant? Glorid and brundler starting. If improvement domestic a traction if improvement domestic all tractions in the proportion of the desired by a form that the should be done and ollowed by the destrose injection.

LABOR AND ITS COMPLICATIONS

Van Hoosen B. Scopolamine Angesthesia in the Second Stage of Abnormal Labor 1807 & Angl 1928 vs. 353

Scopolamine angesthesia during labor preents latigue and physical distruit sace allows the use of any operative procedure necessary to effect desirely does not interfere with the normal contractions of the uterus and help to preecul trauma loss of blood and asphysia of the infart

Experience in several thousand delivence has demonstrated that scopolamine morphine angilera can be continued with advantage throughout the entire delivery and especially in the second stage of

The author reports three illustrative cases

CARL H. DAVID, M.D.

Bill A H The Problem of the Vortex Occipitoposterior Position Acp England J Med 1918 czcz 1237

The difficulty in the management of the occipul posterior position is generally due to one of the three following causes

t Too great delay in delivery When delivery is too long delayed there may be tonic contraction of the uterus which interferes with the procedure of choice the delivery may be performed at a time we weakening of the f tal beart and the passage of meconium indicate that the baby cannot survive and thereby to defective corpus luteum formation free when the bleeding is irregular during lication there is regular ovulation which acts as a guide to the cycle of bleeding is sput of the metrorrhagia. This type of bleeding is doubliess capable of exert ing an unfavorable influence on the scerction of milk. Therefore the author recommends for such cases the administration of corpus luteum substance which frequently gives very good results

SECERT (G)

Report of the Committee on Survey of the Incidence of Puerperal Septicæmia in Massachusetts in 1927 New England J. Med. 1928 excit. 1253

The number of cases of puerperal sepast recorded by the State Department of Vatal Statuston of Massachusetts in payment to The Committee on Massachusetts in payment to The Committee on 91 The number of women delivered at home and the number of those delivered in a hospital were equal. There were twice as many normal delivered as operative deliveres and also precipitate labors as operative deliveres and also precipitate labors. Tace were 20 cases of mecomplete abortion and 5 deaths from sepass after casacrean section.

The investigating committee concluded that the deaths from incomplete abortion and exogenous infection cannot be charged to laxity of the medical attendant but they recommended that the greatest care be observed by members of the medical profession in the management of obstetrical cases

CARL H DAVIS M D

Armstrong R R and Shaw W Streptococcal Vaccines in the Treatment of Puerperal Sepsis B u M J 1028 u 1082

From their clinical and experimental observations the authors conclude that puerperal morbidity is due in the main to a single cause the streptococcus progenes. As spontaneous recovery has resulted in all but a few of their cases they believe that in the

prevention of sepsis the use of special remedies such as vaccines is of secondary importance to conservative and aseptic midwifery — CARL H. DAVIS. M. D.

MISCELLANEOUS

Radwany S The Behavlor of the Blood Platelets in Labor the Puerperium and Certain Obstet

rical Complications (Das Verhalten der Blut plaettehen bei der Geburt im kindbett und einigen obstetnischen Komplikationen) Orvoskép és 1928 von 136

From 300 blood platelet counts in the cases of 103 women the author draws the following con-

clusions
During pregnancy and just preceding delivery the
number of blood platelets is the same as in non
pregnant women. The greater the loss of blood
during labor the sooner thereafter the number of
during labor the sooner thereafter the number of
blood platelets begins to nee and the longer it re
quires to return to the normal. After minor losses
of blood the count is almost doubled after moderate
losses it is more than doubled and after severe
losses it than be even tripled.

The number of en throytes decreases after delivery in proportion to the amount of blood lost and then gradually returns to normal. It reaches normal at the same time that the number of blood platelets ceases to increase. In cases with large losses of blood and in cases of long continued purepral bleed ing the replacement of blood corpuscles and the increase in the blood platelet count continue longer. Therefore the increase in the blood platelets is a certain indication of the recuperation of the organ continued in the continued purepractical of the organ boss there are no characteristic changes in the blood platelet count.

Next to the Formo method of counting the blood platelets the author regards the Borot Kaltstein method as the best Temesvary (G)

RESULTS IN 295 CASES IN WILLCH THE CLASSICAL CLESAREAN SECTION WAS DONE

G up	T11	Al bill	FEI	M: 1	F tal d the	Charles 17 (s) de 18s
I Contract d p is as r B f or e ly i lab	138	113	25		3	Sypesi Spin bild a Perascurate
Lite and bo aft is lebo n liding bit ted libor	59	٥	1	o	5	to bid a. Suphyma r J nduce I suphym Suphyma r J nduce I suphym S
g Aftruit to of pm tuefabor by boge belloo or mittb 4 Aftr tempts tfor pdf y	7;	16 3	8 4	0		
II El pandothe txema to le ilhem rring (cael 1)		3	3 3	t	5 4	
III Plac t p evia		16	6		1	
IV Oth co dition betru tang I be f b wit more Os n y t y traif i toon	3	3	:			1
a Regul tela fe ex 5 hoc sur fit 6 Malp ft	1	,	;	:		
V Cra disease in the m ther	1	;	:	z.		

from 10 to 20 c cm of anti-streptococcus serum The various groups of cases and the maternal and fetal mortality are shown in the table. The maternal mortality in the 295 cases was 1 3 per cent and the fetal mortality 8 5 per cent HARVEY B MATTHEWS M D

Cosgrove S A Cæsarean Section and Forceps When They Must Not Be Used J Wed Soc A

Jers v 1028 xxv 776 The author states that recent surveys of obstetri cal operative mortality especially that of clesarean section from several representative communities are appalling He discusses the mechanism of labor the forces which favor it the resistances which retard it and the methods of artificial assistance and methani cal intervention. He emphasizes the importance of rizid observance of the indications and contra indi cations for exsarean section and the use of forceps

In casarean section the conditions essential for maximum safety of the mother are (1) a good gen eral condition (2) absence of marke I labor exhaus tion, (3) integrity of the amniotic sac and (4) an uninjured and uninfected birth tract

In the application of forceps full dilatation and retraction of the cervix are essential. The dispropor tion between the presenting part and the pelvic inlet must not be too great The application of forceps to a head which is still wholly above the rim of the pel vis or only slightly moulded is unjustifiable exact knowledge of the condition to be dealt with is

essential In expected dystocia careful pelvimetry and ex amination under anasthesia if necessary should be done and roentgenograms should be made in order

to determine the cases in which an operative procedure is definitely indicated

MAENESP LENE MD

PUERPERIUM AND ITS COMPLICATIONS

Vertes O The Cessation of Menstruation During Luctation (Das Verhalten der Menstruati n nes rend der Laciation) Zentralbl f Gynark 1928 11, 1666

The cessation of menstruction during the period of lactation is regarded by certain gyneco ogist as physiological and by others as pathological As foliacles begin to ripen again at the end of pregnancy the amenoriheea which occurs in about 50 per cert of lactating women must be ascribed to changes in the uterus Thorn believes that there is a progre sive atrophy of the aterus up to the fourth month after delivery and that when menstruction recurs sooner even though the woman is nursing her chief regularly and is therefore using her body flud production exclusively in the formation of milk the must be some pathological by peramic process in the reg on of the uterus The author has confirmed the correctness of this theory by carefully taken fustaries

Vertes believes that all nomen who menstruste during the period of lactation are suffers g from so inflammator) process of the tubes and perimetrum although this condition may not be demonstrable by pulpation According to the degree of the is flammation and congestive hyperamia the bledge may be that of menorrhagia or metrorrhagia The latter type of bleeding occurs when the chronic con gestion leads to premature ripening of the fallides prography will indicate whether conservative sur gery or nephrectomy should be done

After an operation on the urmary tract tests of hidney function made at intervals indicate better than any other procedure the progress of recovery

Lauber II J The Diagnostic Significance of the Ampullary Renal Lelvis (Die diagnostische Be ceutung des ampullaeren Nierenbeckens) Zischr f wrol Chir 1928 xxv 93

IOHN PONER MD

After discussing the variations in the form of the normal tenal pelvis as described by Hyrtl Hauch Papin and others the author reports the findings in fifty cases without renal disease in which pyelo graphic studies were made at the Kiel clinic. He then discusses the question as to whether the so talled ampullary renal pelvis is normal or due to obstruction of the urinary outflow

Hauch Papin and Batzy consider the ampullary form of renal pelvis to be normal, but Voelcker says that as the first effect of urmary obstruction is dila tation of the renal pelvis it is pathological. The author's findings support Voelcker's theory In two of seven cases studied by Lauber stone was proved to be the cause of the ampullary pelvis. In three others bloody urine appearing periodically was re garded as evidence of renal stone which could not be demonstrated roentgenologically. In two cases se vere infection was associated with the dilatation of the renal pelvis. In four cases the ureter could not be filled normally with contrast material There to e of the seven cases four were certainly patho

log: al and three were suggestive of renal stone Is the author's opinion the urinary stagnation is the cause and not the result of the ampullary renal pelvis and the latter is a beginning by dronephrosis

JANSSEN (Z)

Morison D M Routes of Absorption in Hydro nephrosis Experimentation with Dyes in the Totally Obstructed Ureter I roc Roy Soc Med Lond 1928 XVII 219

The author reports the findings made in experi ments on the kidneys of rabbits in which injections of d)e were made at various periods in the course of hidronephrosis As the amount of die introduced was well within the pelvic capacity of the kidney the occurrence of positive pressure forcing the dve into abnormal channels was reduced to the mini

Two groups of experiments were undertaken In the first group the dye was introduced at the outset of hydronephrosis and in the second group at vary ing periods in the course of an established hydro nephrosis

The results undicate that in total hydronephrosis there are two routes of at sorption from the renal pel vis the lymphatic and the tubular At the outset of complete uteteral obstruction an active lymphatic absorption from the walls of the renal pelvis and the ureter occurred during the first two or three days

After about the third day tubular absorption began and was more active than the lymphatic absorption When the dye was not introduced until the third day of the hydronephrosis there was rapid tubular ab sorption but no lymphatic absorption When the hydronephrosis had been present still longer the dye was drawn up the tubule system as far as the con voluted tubules The further absorption of the dye into the general system was not determined

LOUIS GROSS M D

Ferrer J C Obstruction to the Venous Circula tion in the kidney Caused by Distention of the Pelvis and Calyces with Special Reference to Pyelovenous Backflow J Urol 1928 xx 701

From investigations of the effect of distention of the renal pelvis on the venous circulation of the kid ney which were made on kidneys freshly obtained from human cadavers the author draws the follow ing conclusions

Distention of the renal pelvis and calyces to their normal capacity will produce a distinct partial obstruction to the venous outflow

2 The obstruction is proportionate to the degree of the distention

3 Pyelovenous backflow is temporary and will persist until the pressure of the outflow overpowers

Obstruction to the free outflow of the pelvis will produce passive renal congestion

5 Continuous distention of the renal pelvis may favor the development of hydronephrosis

6 An understanding of this obstruction will tend to stimulate investigations with regard to ureteral drainage and dilatation especially in pregnancy CLAUDE D PICKRELL M D

Billington W The Therapeutic Value of Neph ropery Brit M J 19 8 n 975

The results of nephropexy must be judged from the success of the operation in permanently replacing the kidneys in their normal position without un favorable sequelæ such as pain in the loin or back hermia of the wound and persistent sinus and in curing or ameliorating the symptoms for which it was performed. The most common causes of error in the diagnosis of surgical failure have been Reidl s lobe of the liver and enlargement of the gall bladder Hydronephrosis if already present at the time of the operation continues and usually necessitates nephrectomy later Unsuccessful results from ne phropery do not improve to any extent but any benefit from the operation is permanent

The author reviews 163 cases in which nephronexy was done One hundred and fifty of the nationts The operation was successful in 71 were women cases (43 6 per cent) partially successful in 41 (25 per cent) and a failure in 51 (31.4 per cent)

In conclusion the author emphasizes the importance of treating nephroptosis before the neurotic symptoms associated with the condition become LIMER HESS M D

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Bothe A E Primary Extrarenal Hypernephroma Ann Surg 1028 LXXVIII 1028

Although hypernephroma usually originates in the kidner it may develop also in other organs. Embryological and pathological observations indicate that hypernephromata are polystructural tumors originating in adrenal rests

The author reports a study of a primary extraceal hypertephonous which was made to compare the htological structure of such neoplasms with that of renal hypertephornats. The patient a manseventy seven years of age complained chiefly of nausea enguastric pain and postprandial abdominal distention and discomfort relieved by eructation of gas the part of the part of

in the property of the presence of a smooth tense and slightly movable mass about the succession of the analysis of the presence of a smooth tense and slightly movable mass about the suze of a grapefruit in the upper right quadrunt. The mass was some what tender and moved with respiration. The perionaci cavity contained free fluid. The gastro intestinal roentigenogram showed multiple points of assass (slight obstruction) in the small intestine. The pre-operative diagnosis was carcinoma of the upper properties of the property of the prop

At laparotomy the tumor was found to arise from the soft tissues in the region of the right adrenal gland. There was no evidence of intestinal obstruction. The liver contained metastatic tumors. The patient died on the fifth day after the operation from bronchometimonia.

In their embryonic state the anlace cells of the adrenal are so situated with respect to the liver, kidney ovary testicle epididymis and uterus especially in embryos from 12 to 16 mm. in length that the possibility of adrenal cell inclusions in these organs can be readily understood. According to Broman adrenal rests have been found in the rete testis epididymis and paradidymis on the spermatic cord, in above and below the inguinal canal in the ovaries on the fallopian tubes in the retroperstoneal tissue below the poles of the kidneys along the spermatic and ovarian veins in the iliopsoas muscle at the brim of the pelvis at the sacro iliac synchon drosss in the renal capsule and kidney substance on the walls of neighboring vessels in the renal and solar sympathetic plexuses between the transverse colon and the spleen in the right lobe of the liver and in the pancreas

Primary hypernephroma occurs most frequently in the kidney but may develop in any of the tissues in which adrenal rests have been found In the case reported by the author the pre dominating cells while presenting a slight variation in size and shape were of the large polygoal type consisting of a large nucleus surrounded by a cler vacuolated cytoplasm Most of the nucle standdeeply. Many mitotic figures were seen. The ar rangement showed great diversity being of the adrenal endothelial papillary alveolar and tubular types.

The predominating cells of hypernephromats are similar to those found in the normal adrenal corter. The multistructural formations of the cells in hypernephromata are due to the plane in which the irregularly arranged capillary strong as cut

Louis Negative MD

Muschat M The Physiology of the Milking Muscle of the Kidney Am J Med Sc 1928 tixty,

Muschat states that the papillary muscle of the kindery is an anatomical and physiological entity with rivi thmic contractions. When this muscle contracts it expresses the entire find contact of the cally it he pressure wave being transmitted to the papilla which it squeezes for a short internal. The squared architecture of the muscle indicates that the impulse begins at the base of the papilla such cities around not the most papilla which it is squared to the most papilla with a papilla should be a proposed of negative pressure in the cally and also in the main dictors unaims the central duct of the papilla which suchs the unce out of the kinders yunbelance.

Bugbee H G The Rôle of kidney Function in Urological Surgery J Urol 1928 xx 541

Audney function is one of the most important factors to be considered in the management of wording surgical cases. In a symposium on tests of the blood and urnen indicative of renal function at a receil meeting of the International Urolovical Society in Brussels at was generally agreed that determinations of the carbon diounde combining power of which the contract of the blood of the restations urea une and and separate tests of the blood and of the elimination of pitch lean during four fifteen minute privides are of great than the contract of the second contract of t

The author reviews 171 cases of prostatic obstruction. The best results were obtained when the treatment was guided by the kidney function. When the risk is shown to be great a two-stage operation is indicated.

In surgery of the upper urmary tract not only the combined function of both kidneys but also the function of each kidney must be taken into consideration. These determinations in combination with the clinical observations and the findings of

the position of the nationt so that the extent of the discrizulum and its orifice may be seen. After the bladder has been emptied they make a retention

In the treatment radical excision is regarded as the procedure of choice For small diverticula the authors favor Young's intravesical suction tech move but for large diverticula they prefer packing with gauze and extravesical removal. They empha size that at the point where the diverticulum is re moved it is important to close the bladder with good muscle tissue. The walls should be inverted and if necessary a ridge should be left. If the ureter is involved it should be transplanted. It should run above the mucous membrane for a distance

In 43 cases operated upon there were 3 operative deaths a mortality of 7 per cent. Of 21 patients who were followed for from six months to fourteen years 12 showed marked improvement and 9 were

completely relieved

When there is no impairment of renal function the prognosis is favorable. If malignancy is found the prognosis must be guarded If the obstruction is removed and the bladder wound closed with good muscle tissue the possibility of recurrence is slight The radical operation has been fully justified by its CLAUDE D PICKRELL M D

Aschner P W The Pathology of Vesical Neo plasms J Am W 4ss 1928 xc1 1697

To meet the need for a classification of the com mon varieties of vesical tumors which is in accord with the general principles of tumor terminology and will answer the requirements of the clinician the author suggests the following grouping which is based on the gross as well as the microscopic fea tures of the neoplasms

I Papill ma Benign Cell uniformity and typism A Pedunculated (1) single (2) multiple B Sessile Papillomatosis

2 Papillary carcinoma

A Non infiltrating (1) scattered areas of some what atypical cells (2) more diffuse and more marked atypi m

B Infiltrating (t) cells of benign type (rare) (2) cells anaplastic (a) stroma or stalk in vasion (b) submucosal base invasion (c)

musculates and perivesical savasion 3 on pap "ary (fat) carcinoma (a) fibrocarcinoma (scirrhous) (b) medullary (c) adenocarci

noma (d) squamous and (e) hornifying Aschner has reviewed the slides of every tumor subjected to biopsy or operation at the Mt Sinai Hospital Vey York since 1911 and has diagnosed each in accordance with this classification clinical information regarding the cases and the late results were obtained from the recent compilation of Beer and his associates The 2 objects of this study were (1) an evaluation of biopsy for diagnosis and (2) an evaluation of the nature of the patho logical condition for prognosis. The findings are summarized in a table. The following conclusions

Reliable information as to the nature of bladder tumors is obtainable by cystoscopic biopsy in 97 per cent of cases The failures occur in cases of mul tiple tumors and papillomatosis In cases of malig nancy the prognosis cannot be made from biopsy alone

2 A biopsy diagnosis of malignancy in a case of tumor simulating a papilloma in its cystoscopic appearance and response to fulguration is an indication for more radical therapy (radium irradiation or surgery) unless the patient is debilitated

3 Bladder tumors may be classified in a manner barmonious with general tumor terminology and with clinical terminology. They are benign or malignant

4 Classification based on cell grading alone is not as practicable for clinical purposes. In the cases reviewed the prognosis on such a basis did not agree with the late results

5 The presence or absence of infiltration ap pears to be a more reliable guide to the gravity of

the condition 6 The site of the malignant tumor determines its resectability and therefore materially influences

the prognosis 7 If a biopsy diagnosis of carcinoma is made and the case is considered surgical resection through the whole thickness of the bladder wall is the procedure of choice Even in cases of pedunculated tumors incomplete resection has often been followed by recurrence Stalk invasion and tumor cells in blood vessels at the base of the tumor cannot be detected

by gross inspection As only 29 of the 137 papillary carcinomata reviewed were not infiltrating it is probable that the non infiltrating types represent an earlier stage of the disease 8 Before radical surgery of the bladder is under taken a biopsy should be made since other lesions

may resemble neoplasms very closely I EDWIN LINEPATRICK M D

key E The Operative Treatment of Large Defects in the Urethra (Emige Worte ueber die operative Behandlung grosser Urethraldefelte) Acta chirure Scand 1928 Itil 545

In a case of scrotal and permeal gangrene which had caused a large defect in the urethra the bladder was drained partly through a vesicular fistula and narth through a catheter which was passed through the posterior part of the urethra and brought out through the permeal wound While the large wound was clearing up and the patient was being given treatment preliminary to an operation to cover the urethral defect an epithelial tube formed around the catheter leading out from the perineum. As direct suture of the two urethral ends was impossible and an operation by Ekehorn's method would have been very difficult on account of the patient's corpulence the urethral defect was covered by the newly formed epithelial tube around the catheter The result was satisfactory and the method is recommended for similar cases

456

Scholl A J Kidney Resection Ann Surg 1928

Partial nephrectony was done more often before the modern unprovenents were made un herechauge of complete nephrectony. It is associated with the danger of harmorfungs and the formation of unnary smuses. Scholl and Judd have done partial resection in localized infections of the kindey with good end results. Scholl cites experiments performed by Tuffier Bobroff Hinnam Perfamann and Kiras which show that life is possible when only a very small portion of normal kindey tissue remains.

Spitzer W M and Wallin I E Supernumerary Ectopic Ureters Ann Strg 1928 (xxxviit 105)

MAURICE MELTER M D

This arts le reports a case in which an accessory body which secreted a fluid in no way resembling urine was found above each kidnes. The fluid was drained by tubes which opened at the position of the para urethral duct on each side. In the walls of the bladder and vagina the tubes followed the course which was the properties of the properties of the mean report of the distribution of the mean report of working duct tentames of the mesonephine or wolffina duct.

The authors emphasize the difference between supernumerary ectopic ureters and ectopic ureters that are not supernumerary. They agree with Furniss Herbst I olky and kilbane that in cases of supernumerary ectopic ureters heminephrectomy is indicated. Louis Goss M D.

Klein W O A Large Extravesical Stone Which Had Perforated (Extra esical gelegener dur lige brochener grosser Ureterstein) 21 ch. f. urol Chir. 1028 Xxiv SA

Perforation of the ureter by a stone is relatively tare. As a rule the perforation is not recognized but in some cases it is revealed later by the passage of stones through fistulae from paranephric or periure teral abscisses. Up to 1911 only twelve cases were

recorded in the li crature

The author reports the case of a man lorty three years of age who had three attacks of renal cohe due to stone. The third attack lasted for fourteen days On abdominal and rectal pollpation a hard resultant of the state of the mucosa on the left side of the bladder. There was no exerction of indigocarimies from the left ureter but pus exuded from that orifice. Recatgenological examination after the introduction of air into the bladder aboved a large oval stone in the small pelvis and another stone and another stone are the state of the state of

with a dilated pelvs and a kinked ureter
At operation through a left lumbar incision a large
your phosis was found. This was opened and
drained. A horizontal incision was then made above
the symphysis and the bladder was opened. The

stone was felt behind the blidder wall and was re moved transvesically from a bed of firm about tissue. The other stone could not be palpated. For weeks later the hydronephrotic sac and greath thickened ureter were removed.

The author believes that the ureteral stone was impacted for some time and then ulcerated into the extravesical tissues through the jurial seisal portion of the ureter. The exact site of the other stone which could be seen in the roningen picture but could not be palpated was not determined.

Posyer (Z)

BLADDER URETHRA AND PENIS

Lower W. E. and Higgins G. C. Directicula of the Urinary Bladder with a Report of 118 Gases. J. Urol. 1928 xx 633

The structure of the walls of a diverticulum of the unnary bladder varies with the amount of indiam matton present and the size of the diverticulum. The thickness of the walls may are priced by the size of the walls may are proposed by the size of the walls may be size of the walls are proposed to the walls are proposed to the walls are size of the wall are size of the walls are size of the walls are size of the wa

fibers and mucosa being atrophic or absent Diverticula may occur in any part of the bladder

but are most common near the ureters

Some unologists believe that di erticula of the
urinary bladder are of congenital origin and others
that they are acquired According to a third group
they may be either congenital or acquired

They usually occur after the age of hity years when prostatic obstruction is most common by many develop at any age. The average age of the patients whose cases are reviewed by the authors

has fift, any and eight tenths years. The most common complications as a indicated and tumors. In 16 of the 110 casts reversed by the authors stones were found in e. 'the bladder or the discritication or in both. The stones may be single or multiple. The formation of sistering the standard by stagnation and infection. Infection be usually present. It warses in its secretly. 'this maney is not a common completion. In 4 of the cases reviewed there was a carricumous of the bladder and in it case a carricumous within the discriminar. The symptoms of discritical of the emery high.

I ne symptoms of unverteuxs of construction De der are usually those of produce by verticula of moderate are many expensionales until the construction of the construction of the or more attempts are vertically as the construction of the construction of vertical production of the construction of vertical production of the construction of a diverticulum may be suspected Frequency burn and pyrum are common symptoms.

The diagnosis is made by cystosopic examinator or by cystoscaphy. The size of the discriticulum as be determined by making a cystogram with a \ \text{in} \text{ catheter in the discriculum. The authors mile a cystogram after fluoroscopic observation changes.

at any part of the ornfice can be seen clearly The instrument may be rotated at different segments and will reveal lobules which previously required systoscopic study. It is important to bear in mind that if the cautery blade is pushed home before the heat has reached the blade it may brisk.

After the operation a large indwelling catheter to 24 F with two eyes) is inserted and the bladder is irrigated. When the irrigation is completed some of the fluid is allowed to remain in the bladder and the catheter is corked. In the post operative tare continuous diranage is necessary dump the first few hours. In simple cases the catheter is removed after forty-regibt hours. In cases with a large amount of residual urine and in these with a large obstruction the catheter is left.

Complications have been rare Hæmorrhage is decreased by the superficial burning and proper use of the catheter. The operation has never been followed by pronounced sloughing. Epididy mits as occurred in a small percentage of cases. Caulk has sever seen incontinence of urine nor stricture of the urethra following the operation. In his 450 of the urethra following the operation.

As a rule the patient is confined to the hospital

for only about a neek JACOB S GROVE M D

Lousley O S Surgery of the Prostate Gland with a Report of Operative Results Proc Roy Soc Med Lond 1928 xxii 35

Lossley states that with the advent of sacral parasacral and introus oxide oxygen anaesthesia parasacratic state dranage of the bladder preliminary to the other dranage of the bladder preliminary to the other states of the development of accurate kindness the perfection of methods for estimating retention products in the blood stream and the perional type of operation prostatectomy has

become a relatively safe procedure

When the patient suft residual urner is first sent by Low ey the halder is parity refilled free catheteration with hore and solution or sterile state. The amount replaced can be pradeally reduced in no tone symptoms follow the procedure. This o-called decompression of the bladder previsit surman due to complete emptying of an over detached bladder Following the decompression a supraphic cystostomy under local annesthesia is alone for draining. Use is made of the suction apparatus devised by kenyon which having a double spraphic tube does not suck the bladder wall unto the tube. The patient is vaccinated by the Organisms in the bladder.

The prinod of preliminary drainage is continued usil a succession of blood chemical and phenol sulphon-phthalien tests show maximum renal discency and the patient feels well. In cases in such there has been considerable harmorrhage or section a blood transfusion as gueen A purgative and the patient feel with the property of the prop

two days before the operation Fluids are given up to during and immediately after the operation to prevent dehydration.

The important features of an operation on the

the amosthesia induced (3) the route by which the

gland is removed

Perfect local anasthesia induced with 1 per cent procain by the sacral and parasacral method is possible in 05 per cent of cases. In the remaining 5 per cent of cases. In the remaining 5 per cat some slight 1 enforcement is necessary. Local anasthesia does not rause the blood pressure Consequently the harmorrhage occurring during the operation is about one tenth the amount that occurs under general anasthesia. Local anasthesia clim under general anasthesia. Local anasthesia clim prevent surgical shock. Delydration is prevented as water can be given throughout the operation.

as water can be given throughout the operation. The author prefers a modification of young a perineal operation. His modified technique is described in detail. Postoperative drainage is estab lished by a Pezzer catheter which is introduced into the bladder through the untiline and fixed by adhesive. The vesseal orifice and prostatic cavity are the exceptly packed for the continuous and the produced in the produced in the produced in the continuous and the produced by drawing the two sides of the levitor and muscle together with a catgut sturure and the skin is closed with silkworm gut. This procedure allows both the subrarouble and perineal wounds to close subrarouble and perineal wounds to close

The postoperature care is very important. The patient should rest quelty in bed and be disturbed only for the administration of fluids and determina thosa of his blood pressure. The blood pressure is the most important single postoperative determination. It tends to rise about as hours after the operation. In none of the series of cases reviewed did it in a fine of the series of cases reviewed did it in the pressure drops unduly and does not into blood pressure drops unduly and does not into blood pressure drops unduly and does not into glucose solution is administered according to the method described by the author in 1921.

The packing is removed after forty eight hours if the bleeding has stopped the tube is removed from

the bladder on the third day and the patient is

permitted to sit up on the fourth day

Two hundred and nmety seven adenomatous prostates were operated upon by the method de scribed with a mortality of 57 per cent. The average stay in the hospital was twenty two and seventy six hundredths days.

The after results are satisfactory in almost every patient who recovers from a perineal prostate comy Provided both sphincters are not lacerated beyond repair there is never a resulting incontinence. A presistent fistula is never formed if the perineum is reconstructed by drawing the two parts of the reconstructed by drawing the two parts of the reconstructed by drawing the two parts of the provided there is no residual unne.

In cases of carcinoma of the prostate producing residual urine the prostate is removed by the same method. As soon as the patient recovers from the Partsch and Breitlaender The Roentgenological Demonstration of Stelecture and Rupture of the Urethra (Die Darstellum der Hannochte bei Strikturen und Rupturen in Roentgenbild) Ziechr f und Cher 1928 XXV 108

Urethrography is a painless and safe procedure which should be used in all chronic changes and diseases of the urethra. All portions of the urethra should be examined by this method particularly in cases of stricture fistual false passages foreign bodies and diverticula. Roentgenological examina tou is more certain than bouge exploration and

shows the position and extent of the discase process. The uret'ra may be filled with oliquin or a barium sulphate mixture. I doiling no podaces no untoward effect if it remains in the bladder for a considerable time. Sedimentation of the heavy metal self may be proceed by a doiling a supersission of starch and borne of the proceeding the proceeding the proceeding the proceeding to the proceeding the proceedi

The half lateral position with the use of the Bucky diaphragm is satisfactory for the examination. Visu adization of the pars posterior in the sagittal direction seldom shows dilatation. Russcher (Z)

GENITAL ORGANS

Bumpus H C Jr and Thompson G J Tuber cutosis of the Genital Tract 'urg Gynco & Obst 2028 the 702

From their study of tuberculosis of the genital tract the authors draw the following conclusions

r Dysura is a symptom of urmary tuberculosis and does not occur when the disease is confined to the genital tract
2 The presence of the bacilli of tuberculosis in

the urne indicates renal involvement

Unless the urine is microscopically negative

a cystoscopic examination should be made in all cases of chronic tuberculous epididy mitis

4 Satisfactory late results may be expected in

more than 60 per cent of cases

It may be expected that epidid meetomy will

be followed by involvement of the opposite epididy
mis in 30 per cent of cases

6 Usually involvement of the opposite side will occur within one year of the epididymectomy

7 There is a 7 per cent chance of the development of renal tuberculosis after operation

8 Conservative treatment epididymectomy and heliotherapy offers a better prognosis than more radical measures

Hinman F The Surgical Treatment of Urogenital Tuberculosis Surg Clin V 4m 1928 viii 1395 Hinman is of the common that in cases of unilateral

renal tuberculosis associated with active genital lesions, nephrectomy should be practical

He states that in both renal and genital tuber culosis tuberculosis of the bladder may remain the only active ic. on after operation. When this is so advanced as to cause pain frequency and incontinence temporary nephrostomy followed by uneter orectoneostomy may give relief and prolong life.

There are two chines! types of gential hibrariless (1) that in which the more advanced or only leave is in the epididymis and (2) that in which the seminal vesicles are involved with or without in oldvenent of the epididymis. When gential tuber culosis is unassociated with active lesions elsewher the indication is epididy mechany for Type 1 s 4.

the radical operation for Type 2

In cases with active lesions elsewhere the indications for surgery depend upon the extent of the associated involvement as compared with the in

volvement of the genital or urinary organs.

After any type of operation the patient should be kept under observation for an extended penod of time and all of the known clinical methods of treating tuberculosis should be used to supplement the surreical procedure. I Synvey RITER, MD

Caulk J R The Author's Cautery Punch for Prostatic Obstruction J Oklahoma Stal 31 in 1018 xts 327

Cault, states that since 1919 when he first detweth inscattlers, punch he has been using it in an increasing number of cases until today he employs it in at least, oper cent of cases of prostate obstaction. As he has noted that after he peads operation the decrease in the size of the size of the renoved and as the histopherical of an adomnah he has become convinced that the majority of the product of the convention of the product of the product of the product of the product of an adomnah he has become convinced that the majority of the represent a gradual evolution of inflammatory processes over a loop period of time.

The selection of the types of cases which is suitable for the cautery punck operation is dependent entirely upon repeated cystoscopic studies of the vessel ordice under drawage. If under eathert drawage and splinting of the ordice hot spipes thous and antitucpans the prostate began to detect in size if the cystoscopic appearance of the cystoscopic appearance of the cystoscopic appearance of the cystoscopic appearance of the cystoscopic appearance and of the intraordical cystoscopic appearance of the cystoscopic appearance are good. There is no question that the na private the cystoscopic appearance good. There is no question that the na private the cystoscopic appearance of the cystoscop

Caulk reports seventy five cautery much operations performed on torty three patients with large those performed on torty three patients with large those properties of the formagor surgery. Eighty six per group were either completely relaxed or were mode group were either completely relaxed or were mode confortable. Some of the most grating presults have been obtained in cases of carenoma.

Caulk always prepares the patient by god al decompres ion with catheter drainage. The operation requires thorough laminarity with the endoscopic appearance of the urethral onder R is done entirely under visual guidance. Obstructors

In 'e ert e gro p of mnety four cases reviewed by the author there was a history of an attack of poorboe. In only twenty seven and a history of a promos attack of production in twenty, five a premos attack of optididy mits in twenty, five attack occurred during a gonorrhoral infection. It substrates downed during a gonorrhoral infection is supremposed upon a tuberculous infection to tuberculous infection may not be recognized at first buther the supering of its presence is the unusually prological course of the supposed acute gonorrhoral epublish mits.

Tuberculosis of the epididymis is most common between the ages of twenty and forty the period of greatest sexual activity. In the majority of cases its onset is slow and gradual. In thirty cases reviewed an abscess of the crudidy mis was found.

The most important aid in the diagnosis of tuber culosis of the urinary or gential tract is a history of previous attacks of tuberculosis in other organs. In executif, the of the cases reviewed either the phistical or the V ray examination showed evidence of pulmonary tuberculosis and in fifteen cases there was evidence of extrapulmonary tuberculosis.

Another important aid in the diagnosis is the condition of the yas deferens. When there is no evidence of involvement of the vas deferens the diagnosis of tuberculosis of the epididy mis should be made with caution.

Among the findings in favor of a diagnosis of tuberculosis of the epididymis is the presence of a

sugh statula or multiple distulle in the scrotum. The value of rectal examination is negligible. Of seventy eight patients who were operated you sixteen are known by the work of the seventy eight patients of the seventy eight patients of the seventy of the sates deaths in the conditions responsible for the sates deaths in this group developed at varying Prodos after the patients left the hospital. The here most common causes of death were tubercup to the sates of the seventy in the

Wesson M B Traumatic Orchitis A M nomer J im W 1st 1928 x 1 1857

Weson tattes that traumatic orchitus is extremely atten When industrial of the testide occurs without conculent matching and seminal vession like it is usually detected to the control of the maps, the phond fever possibility of the control of the maps typhond fever possibility of a case of tuberculous epuding instanta medicolegal boards must decide whether impay cussed a traumatic evacerbation of a pre-enting letton or the lowered resistance of the magned sett favored the migration of organisms to the magned sett favored the migration of organisms to the magned sett favored the migration of organisms to the migration of the magnetic of the migration of the

has been proved experimentally and if an exacerbation of an already present testicular or epididymal tuberculosis occurs immediately after an injury it may be attributed to the trauma.

Delorme reported that he never saw a case of traumatic orchitis in the Prussian army or cavalry without associated gonorhear or a latent tubercu losis. Of seventy cases of traumatic orchitis studied by the author only three could be attributed to trauma.

BENJAMIN F. ROLLER M. D.

BENJAMIN F. ROLLER M. D.

Stevens A R and Ewing J Adenocarcinoma of the Testls in the Adult Ann Surg 1928 [xxxviii 1974]

The authors report an adenoarconoma of the tests in a man fifty one years old which differed from embry onal tumors in the time of life at which it developed its slow course the absence of metas tases after a long period in spite of a partial opera tases after a long period in spite of a partial opera time its gross nantomy, which showed it to be a peculiar multicystic neoplasm ariving will within the body of the tests and replacing the gland tissue in stead of displacing it and its structure which showed small cubical cells covering very numerous papillary projections of stroma and growing in diffuse or sheltly alweder form

They conclude that the tumor is not to be classed with the ordinary embryonal tumors of teratom atous origin but was an adult anaplastic growth probably derived from the adult tubule cells. They

have never seen a tumor of exactly this type before. They state that there are two varieties of malig nant carcinomata of the testis. The great majority are embryonal carcinomata of teratod organ which tend to appear before the fortieth year of age metassize freely by both the blood and the lymph stream and are very radiosensitie. Those of the year of age grows allow the stream and the property of the property

Man, of the slowly growing tumors of the adult type should be recognized from the clinical data and many more if not all from their gross anatomical and their histological characteristics. If still re mains to be determined how numerous these tumors are and whether there are other variants of the series of adult adenocarcinomata which can be separated from the embryonal carcinomata.

Louis Cross M D

Kelley J E and Hueper W C Carcinoma of the Testicle 1nn Surg 1928 lxxxvm 1979

Tumors of the testicle are relatively rare and the great majority are malignant. Beings growths are so rare that they are of little clinical importance Carcinoma of the testicle is much more frequent than sarroum. Up to the present time more than 700 marked the sarroum and the sarroum are considered to the sarroum and the sarroum are carcinomata, and the sarroum are carcinomata and testical testinomata sarroumat and the sarroum are carcinomata and testinomata sarroumata sarroumata and testinomata sarroumata and testinomata sarroumata sarrouma

immediate effects of the operation radium irradia tion is administered to the prostatic bed. The patient usually has no recurrence at the site of the prostate and lives for from two and one half to three and one half years. Death results ultimately from metastasis.

In 33 cases of carcinoma of the prostate operated upon the mortality was 10 per cent. Almost 10 per cent of the entire series of prostates operated upon were carcinomato.is

In 40 cases of prostatic abscess operated upon by the perineal route under regional anasthesia the average po toperative stay in the hospital was ten and eighty three hundredths days. There were a cases of epididymits and r case of septicermia. None of the patients died. I EDWY KIRSPATICE M.D.

Roinick, II C The Pathology of Epididymitis Surg Gynec & Obst 1928 xlyn 806

Rolinick has found that it is not possible to produce a chemical epididymits. He states that acute epididymits at its onset is an intensitial and pen tubular and not are intravibular inflammation of the tail as well as of the body, and head of the epididymis. The extension of the infection from the tail occurs by way of the pertubular and intensitial tissues ared not by way of the intravibular tails in a start of the transition.

Epiddymotomy should be limited to the tail of the epiddyms without incison of the tunica vaginals. The purpose of the incision is to relieve the ten ion and provide free drainage from the interstitial issues. The operation should be per formed early to prevent permanent damage to the pediad mis.

Lindgren E Septic Epididymitis with Special Regard to the Forms with a Chronic Course (Zur Kennins der septischen Epiddymiten mit Deson derer Berueckschitzung der chronisch verlaufenden Formen) Zister f und Chr. 1928 zw. 127

Lindgren discusses cases of chronic epidolymius which climically suggested tuberculous and were operated upon for the latter condition but in which wiresoscopic examination showed only a chronic non tuberculous inflammation. He does not discussed earlies of the condition was builded. This septic form of epidolymius occur and has septic form of epidolymius occur and has septic form of epidolymius occur and the condition was blatteral. This septic form of epidolymius occur and the condition was blatteral. This septic form the condition was blatteral form the septic form the condition is used to be considered the condition of the condition was the condition of the unitary passages and meastaint op didymuits used has a condition of the unitary passages and meastaint op didymuits.

Traumatic epididy mits is attributed by some to a powerful force and by others to a weak force Trauma does not produce the infection but favors it. In the author's twelve cases the external force did not produce a demonstrable ext mail anying. Trauma evidently causes slight issue abrasions favoring evidently causes slight issue abrasions favoring

the invasion of bacteria from the posterior wrethra
Urethral epididymitis is the most common form
It frequently appears after genorrhora According

to Kappis the bacteria almost always in de the epididymis from the posterior urethra and the pristate. The infection probably travels by way of the vas deferens in which antiperistallic movements have been demonstrated.

Metastatic epidalymits is less common. It occurs in association with septic conditions and other diseases. The infection probably reaches the prostate and seminal vesseles by was of the blood stream and travels to the epidaly miss and visa defections from there. In six of the author's cases the condition followed bronchitis.

While thirty two of the author's cases of epidely mitis could be grouped in these three classes there were fourteen in which the etiology was less clear although the condition was probably of a septic nature

In cystic epididymitis there is nearly always an acute stage with pain an i swelling. When the in volvement is bilateral one epididymis becomes affected after the other The appearance of the patient suggests tuberculosis but the temperature is usually normal or only slightly increased and fre quently there are chills which do not occur in taker culosis The enlargement of the epididymis is no nodular as in tuberculosis and the spermatic tord a either free or uniformly swellen and tender Ser it epididymitis leads less frequently to abscess or fistula formation Occasionally there is a sight symptomatic hydrocele. The urine is often cloudy and on culture yields a bacterial growth. Amo gth bacterial excitants of epididymitis are the bacilus cole staphylococce and streptococci

The prognosis as regards function is doubtful. The was deferens often becomes occurred as the sult of the fibrous change but restoration to normal

may also occur
The treatment is usually conservative consisting
in the application of hot most comprises risk in
and elevation of hot most comprises risk in
and elevation of the most comprises risk in
the minute of the most comprise the proved of value. The injection of antiseptics in
the epidodynam and vas deferents is contri-indicated
Possibly especially in recurrence equidynectory
may be advisable but entirpistion of the time formarket to be considered. While senting a performed
withdook between that it is better to remove an
epididy mis with ordinary septic indiamation than
to leave behind a tuberculous process from yak the
to leave behind a tuberculous process from yak the

infection may become further disseminated.

The article contains a large number of case histories.

Jass et (2)

Kretschmer H L Tuberculosis of the Epidedynis A Critical Review Based on the Study of Ninety Four Cases Surg Gance & Obst. 1918 21va 6,2

Tuberculosis of the epididymis may be confised with syphils but of forty five cases in which Was sermann tests were made only five had a positive

reaction and in these five the nature of the co tues was revealed by histological examination

The patient now has partial urinary control during the day and complete control at night. The author believes that ultimately he will have complete control at all times ELMER HESS M D

MISCELLANEOUS

Redewill F II The Physiology of Micturition J Am M Ass 1028 Ect 1060

The author first describes his portable automatically operated apparatus the cystometer which is of value for the determination of (1) the point at which desire to outs first noted (2) the capacity of the bladder (3) the emptying pressure (4) the concept of the bladder wall and (5) the character suits of various conditions of the bladder (obstruct outs of various conditions of the bladder (obstruct out outside them of the conditions of the bladder).

In discussing the physiology of micturition Rede will states that the trigon muscle is a separate entity of unstriated muscle arising from the longitudinal layer of the ureters Some of the muscle fibers extend down even below the verumontanum The internal and external sphincters of the bladder are surgical entities The internal sphincter consists of the tugon whereas the external sphincter is an ex tension of the outer and inner muscle fibers from the bladder musculature The external sphincter is com posed of striated fibers which begin at the vesical onfice and extend back to the rectum becoming the recto urethralis muscle Anterior fibers of the leva tor and striated muscle known as the levator pros tale bands are attached to the prostatic sheath These sets of muscles are controlled by the sympa thetic and parasympathetic nerves

MAURICE MELTZER M D

Soloway II M
1918 xx c60

Extravasation of Urine J Urol

The author teviens sighty three cases of extra vastion of union which were treated in the period from 101/16 1903. Case due to rupture of the blad for ureter or kidney as me to included. In over 80 per cent of the cases the cases the case a structure of the blabous or bulbomembraneous runs a structure and in nearly every instance the stricture was accompanied by a Pruntificial above.

An important factor in the prognosis of the condition is the physical state of the urine at the time of the extravasation Septic urine is very dorverdent to the tissues causing rapid inflamma

lony actions and accross soon followed by sloughing the symptoms of extra-asation of unne depend upon the long of the upon the duration of the decomposition of the rupture the duration of the decomposition of the upon the duration of the decomposition of the upon the upon the duration of the state of the duration of the state of the duration of the decomposition of the upon the duration of the decomposition of the upon the duration of the decomposition of the upon the duration of the decomposition of the dec

The author draws the following conclusions

1 Extravasation of urine is an emergency con

dition demanding immediate surgical treatment
2 In the majority of cases the cause is a stricture
of the urethra and as a rule this is accompanied by a
periurethral abscess.

3 In extravasation of urine without obstruction to the urinary outflow the anaerobic organisms play a very important role

4 The relationship between the point of rupture of the urethra and the fascial planes of the perineum determines the course of the extravasated urine

5 The most common site of rupture is the bulbous urethra and the next most common site the mem branous urethra Rupture of the prostatic urethra

is rare
7. The best results are obtained by radically opening the focus of infiltration by wide incisions and rectifying the stricture. Both of these procedures should be done at the same time.

8 Extravasation of urine must be differentiated from streptococcal gangrene of the scrotum and penis and from idiopathic gangrene of the scrotum

9 The operation for extravasation of urine may be done under spinal anæsthesia 10 The prognosis depends upon the stage of the

condition in which operation is performed

JOHN P O NEIL M D

Kelsted K and Schlodt E The Treatment of In fection of the Urinary Tract 1cts med Scand 1928 lts 268

The authors review the forms and results of acido sis therrupy recorded in the literature and report the results of the use of calcum or ammonium chloride with hexamethylentetramin or saiol in seventy cases of acidosis. A cure was obtained in twelve The reasons for the failure of the treatment in the other cases are discussed

Rosenstein P Primary Suture in Urological Operations Also a Contribution on Cystopesy (Ueber primare Naht bei urologischen Operationen Zugleich ein Beitrag zur Cystopeue) Zitichr f urol Chir 1918 zur 248

Rosenstein does not agree with surgeons who view primary sature of the shin wound after opening of the hollow viscers of the urmary after opening of the hollow viscers of the urmary after of the shift with the short time through the covering layers of the other short time through the covering layers of the other wisc closed wound at the site of the suture in the viscus. He favors primary suture of the wound provided it is not contra indicated by infection bleeding a persisting wound cavity with stass of better than the contract of the normal sesque of the contract of the other layers.

The pelvis of the kidney has a pronounced ten dency to close after pyclotomy even when it is only lightly sutured especially when the opening is on the anterior surface and the urine can therefore escape in a posterior trough directly into the ureter If it is desired to avoid drainage the suture of the

In the etiology of carcinoma of the testicle he redity is of little if any importance bequalactivity may be a factor as the tumor develops during the period of greatest sexual vigor Previous inflamma tion of the testicle from tuberculosi gonorrhees or syphilis is of no importance in the etiology. It is still doubtful whether trauma is a contributory factor Malignancy is found most frequently in undescended testicles especially those in the inguinal region. The affected testicle is often congenitally larger or smaller than the other one Carcinoma usually starts in the rete testis where the upper part of the epididy mis toins the testicle

Grossly, testicular carcinomata may be divided into solid and cystic growths. Those of the solid type are usually soft and rarely firm in corsistency The testicle with a solid carcinoma usually pre serves its normal shape but is enlarged and occasionally presents a nodular surface Carcinomata of the cystic type resemble cystic teratomata but in volve also the epididymis which in teratoma of the

testicle remains free

According to their histological structure cares nomata of the testicle may be grouped as follows (t) seminoma spermatocytoma or embryonal car cinoma (2) adenocarcinoma with its papillary and gelatinous variety (3) squamous celled carcinoma with and without cornifications and basal celled carcinoma (4) neuro epithelioma (5) chorio-epi theuoma, and (6) carcinosarcoma

Carcinoma of the testicle metastasizes very early ap I extensively by way of the lymphatics and blood vessels Secondary growths occur in the lungs liver brain and kidney in and about the ureter in the bladder in the perivascular tissue from the inguinal canal up to the renal bilum and often in the inferior vena cava and right heart. Very small testicular tumors may produce enormous retroperatoneal metastases

In the early stages of carcinoma of the testicle before metastasis occurs there are practically no subjective symptoms. Fewer than a third of the pa tients complain of a dull dragging pain in the testicle which at fir t increases slowly and then rapidly The growth is smooth and moderately firm to the touch The symptoms produced by metastases depend upon the location of the metastases Cachenia loss of weight and weakness soon develop

The diagnosis can be made if the possibility of malignancy is borne in mind in the examination of abnormalities of the testicle. In doubtful cases im

mediate exploration is indicated

The prognosis is not favorable. In various series of cases the incidence of cure has ranged from 5 to 50 per cent Rice states that the average survival after operation is eight and thirty five hundredths months

Early operation offers the only hope The author advises removal of the inguinal testicle as a prophy lactic measure because of the frequency of carcinoma in the inguinal region and because undescended testicles are nearly always aspermatic. Some sur

geons recommend pre operative X ray treatment of the growth and postoperative X ray treatment of the abdominal glands MAURICE MELTIER M.D.

Cecil A B The Treatment of a Case of Visle Hypospadias Surt Clin N Am 1928 v 1111 Cecil reports the case of a child who was born without a scrotum and with the penis curved down ward and held to the permeum by a strong forous band Urmation occurred through an opening in the Derineum

At the first operation the fibrous band was divided to permit the penis to assume the normal position Vige years later the child was circumcised and the foreskin was opened and sutured over a catheter in serted under the skin of the penis to form an antenor urethra

At a third operation a hexagonal flap of skin was removed from the inner aspect of the touch and introduced beneath the skin of the penile portion

This flap became absorbed

At a fourth operation performed when the thild was twelve years old the foreskin penile tube was connected by a graft to a point just anterior to the hypospadiac opening in the perineum. The Hagner skin flap technique was used

At a fifth operation, suprapable drainser was established and the deep urethra was connected with the reconstructed penile urethra. Two months is t FIRES HESS, M D the child voided normall;

Cecil A B The Treatment of a Case of Male Epispadias Surg Clin A Am 1928 vill, 1321 In the case reported the pubic bones were joined by a fibrous band and the thighs were rotated out ward At the root of the penus there was an opening the size of the little finger from which unne con stantly dribbled. The penis was retracted and turned sharply upon the lower abdom.nal wall The urethral canal was entirely open and the foreskin was markedly redundant. The testes and scrotum

were normal At the first operation performed through a rectus incision the bladder was found to be the size of a walnut The internal vesical sphincter was denuded and sewed together and a suprapub c tube placed in the bladder

At a second operation the bladder neck was com pletely freed the suprapubic opening extended down under the fibrous band which held the pubic bones together and a small I shape I portion was removed from the anterior aspect of the neck of the blad er The vesical neck was then brought tighly ever a No 12 catheter and the closure continued upward toward the ventral surface of the bladder culminating in the fixation of a suprapub c tabe After

healing the patient had a fair amount of control At a third operation a suprapubic tube was again introduced and the urethra denuded and overcent The superficial tissues of the penis were then over sewn with interrupted sutures of silk. The operation

was followed by ordems of the penis

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Watt J C The Development of Bone (A) The Process of Development in Bones of Different Types (B) Normal Physiological Calcification of the Matrix in Cartilage and in Bone (C) The Problem of the Manner of Deposition of the Calcium Salts tech Surg 1928 vol 1017

The deposition of calcium in the normal development of bone is a function of living cells. It is in contrast to the process following pathological lesions in which the deposits are the result of the physical precipitation of calcium in the dead or injured tissues.

The first sign of ossification in normal embryocuttings be cliargement of the cartilage cells at the ends of long bones and their arrangement into columns. The next stage is the formation of groups of cells between which there is formed a substantial ranching trabecular network, which later becomes the most heavily calcined area. The matrix between belts first stams more deeply and then the

the cells first stains more deeply and then the beginning of cal ification can be seen in the form of small granules which appear around the periphery of the lacunæ of the cartilage cells and gradually in crease until the matrix becomes a solid mass Calcification of the empty see become in the center.

Calcification of the epiphyses begins in the center The process is the same as that found in the short irregular bones There is first an increase in vascu lanzation and in the amount of matrix between the ceils The cells then group themselves into clusters and around the periphery of each cell small granules are deposited The deposit takes place first around the cells nearest the blood vessels The blood vessels do not penetrate the central part of the cartilage until it begins to calcify They enter the calcified mass by erosion and the true ossification proceeds along the vessels Flat bones such as those of the skull may calcify without the presence of blood vessels in the cartilage in other respects they develop in the same way as other parts of the skeleton

Membrane bones are produced by layers of cells on the surface of the fibrous sheets which serve as a stamework. The calcification proceeds from the surface to the center of the sheet. The bone forming tells exude the calcium salts into the matrix where they precipitate guing the bone its hardness.

In all cases of calcification of cartulage observed by the author it was noted that calcium appeared first in the form of granules the granules were embedded in the matter immediately outside the cell capsule the calcium salts appeared before blood vessels were present in the calcified area and the calcium salts off not appear until the cartulage cells had become calarged and groups!

Wells has shown that 8¢ per cent of the calcium in hone is in the form of phosphate and is per cent in Bergeim's experiments the form of carbonate showed that in rachitic rats calcium and phosphorus are both lost in the faces whereas in normal rats these elements are absorbed. Other experiments have shown that all tissues which utilize phosphates nossess a ferment called phosphatase which will produce inorganic phosphates from organic phos phoric esters Eden found large amounts of calcium in the callus of healing fractures before any callus was visible in the roentgenogram it was evident in a form bound to protein Injections of calcium salts into the site of a fracture have been known to hasten healing

The formation of clam shells and egg shells is an other evidence of the secretive power of the living cell in the production of calcification. The shell of birds eggs is composed almost entirely of calcium and is secreted by the shell gland a modified part of the genital tract. This secretion is an undeniable cellular activity causing calcification. In experi ments on young mice in which he injected a blue die and subsequently examined the developing teeth Blotevogel found the dye not only in the cells before the dentine and enamel were formed but also in the calcified tooth The influence of some of the ductless glands on bone formation notably in acromegaly and cretinism is further evidence that bone growth or calcification is an activity of the living cell rather than a physical precipitation

Calcum is secreted to form hard structures by six types of cells—three epithelia cells and three connective tissue cells. The epithelial cells are (1) the ameloblast which builds the enamel of the teeth (3) the epithelium of the matte of the clam and (3) the epithelium of the burst shell gland. The conbuilds dentane in the teeth (2) the cartilage cell and (3) the osteoblast and bone cornustle.

WILLIAM & CLARE MD

Axhausen G Azemic Infarcts in the Osseous System and Their Significance with Regard to the Theory of Primary Epiphyseal Necroses (Weber amerusche Infarkte am knochensystem und ihre Bedeutung für die Lehre von den primaeren Epiphyseonekrosen) irch f klin Chir 1928 cli 72

Ashausen attempts to explain a series of hereto fore unexplained joint diseases by the development of primary expinyscal necroses. The anatomico genetic explanation of such primary necroses of the expinyses has recently been supported also by the observations of others. Their etiological significance however is still disputed. Arhausen's theory that

pyelotomy wound should be carried out with par ticular care to prevent the escape of urine into the tissues After completion of the suture the author usually pours a 1 500 solution of ray and into the wound to destroy any bacteria that may have pene trated into the tissues from the renal pelvis

Under the conditions mentioned the author prefers primary suture also after ureterotomy provided the stone was located high enough for the field of operation to be visible if the ureter can be closed without tension and if the suture can be covered

by a flap of fat Rosenstein is decidedly in favor of primary suture after suprapuble section even when the urine has been quite catarrhal As the adjacent tissues must be protected against the escape of urine he usually fastens the bladder somewhat below the in tended incision to the symphysis or the rectus muscle with three catgut sutures in such a way that by this procedure which he calls evistoners space of Retzius is protected against infection

He does primary suturing also in nephrectomy without regard to the stump of the ureter il the wound is not soiled and as a routine procedure in

nephropexy Closure of the abdominal wound best assures the firmness of the suture of the hollow viscus As roof of this fact the author discusses suture of the bla! Drainage over the closed bladder is usually removed after several days when as the result of absorption of the cateut the danger of insufficiency of the sutures is greatest. At the same time the refention catheter is usually removed so that the suture line in the bladder is placed under greater strain. As a result a fistula frequently develops The author therefore avoids all drainage after supra public existotomy and on the first a disecond days after the operation irrigates the bladder with small

amounts of fluid In conclusion Rosenstein reports a number of case histories in support of his views

IN SSEN (Z

ent. In the former the weight bearing portion of the joint becomes involved early, whereas in the tuberculous process the granulation tissue is kept out of the weight bearing portion of the joint by the contact and pressure of the opposing surfaces

Complete restoration is rare as fibrous ankylosis often occurs or if the articular cartilages are com pletely destroyed bony ankylosis results. The au thor states that the Willems treatment is hardly practical for civil life. For the purulent form of ar thnus he advises early drainage rest and weight extension. He emphasizes that for drainage and preservation of the anatomy of the part the incision

should be placed in the most dependent position The treatment of the sequelæ should consist in the prevention of joint contractures and active use of the parts after subsidence of the inflammatory process Baking massage diathermy and passive motion are rarely of much benefit and forcible manipulation under anæsthesia may activate a qui escent infection. Osteotomy and arthroplasty are extremely valuable procedures but should not be attempted until months or years after the inflamma tory process has subsided PAUL C COLONNA M D

Payr E Chronic Infectious Arthritis and Its Surgical Treatment Injection I rocedures Synovectomy Etc (Ueber die chronische Infekt Arthritis und ihre chirurgische Behandlung Eins prinungsversahren Synovektomie usw) Zische f klin Med 1928 cvni 4

Payr applies the term infectious arthritis to all bacterial toxic conditions of joints with the exception of infectious granulation tumors and to the end results of acute inflammations. An exact differentia t on of these conditions is difficult. They are related to chronic articular rheumatism (polyarthritis) and possibly also to the periarthritis destruens of Umber which is considered to be an endocrine condition Combinations of arthroses with infectious arthritis are possible. In all advanced cases a secondary arthritis delormans develops from the infectious arthritis Because of these facts the etiology is difficult to determine

Infectious arthritis may be monarticular or polyarticular It is of two types a hypertrophic (moist) type and an adhesive contracting (dry) type In the former two varieties may be differentiated one with a considerable often recurring exudate and the other with less exudate but with marked thickening of the synovial membrane The changes affect chiefly the synovial membrane and the sub synovial connective tissue The active stage is characterized first by harmorrhages nests of bacteria and infiltration and later by the formation of necrotic and granulation areas in a pronounced focal form. The cartilage and bony joint bodies remain fairly intact for a long time but may fuse in ankylo sis secondarily In the dry type of infectious arthritis the characteristic changes leading to secondar) arthritis deformans are a narrowing of the capsular space due to cicatricial contraction

welding of the gliding surfaces by a pannus develop ing between the cartilaginous erosions and the formation of intra articular adhesions and peri articular indurations Contractures rarely fail to occur in either form of the condition. The knee and hip are affected most often and then with rapidly decreasing frequency the elbow shoulder and tibiotarsal joint Frequently the involvement is bilateral

To establish the diagnosis histological bacterio logical and serological examinations are essential When tuberculosis is suspected animal inoculation is necessary In all doubtful cases in which no fluid is obtainable on puncture particularly those of the adhesive contracting type biopsy excision of the

synovial membrane should be done

The temperature of the skin is somewhat increased over the joint. In most cases with a tendency toward ankylosis the blood picture shows a considerable lymphocytosis Stimulation therapy and diagnostic procedures such as squeezing out of the tonsils probing of dental fistulæ gynecological examina tions and massage of the prostate are followed by a local reaction

The roentgenogram shows spotty atrophy cyst formation thickening peripheral proliferations ossification of the capsule and ligaments calcareous foct and intensification of the shadows of the capsule due to the deposit of iron pigment. Inflation of the joint with oxygen may reveal evidence of changes in the capsular space

The surgical treatment includes minor and major interventions. Among the former are

I Extirpation of the primary focus of infection After this has been done the author waits for a period of from six to eight weeks before beginning energetic local treatment of the joint

2 Pain relieving treatment of the joint capsule and cavity such as aspiration anaesthetization and filling of the joint cavity with an antiseptic (phenol camphor)

The production of an artificial hydrops in the dry form of the condition and measures for redis tention of the contracted capsular tube

The combating of rigidity (hypertonia) of the muscles by hyperæmia massage and anæsthesia

s Gradual and careful elimination of the con tractures by the use of apparatus extension etc 6 Hydrotherapy care of the muscles and

mechanotherapy The use of splinting apparatus

Active movement in sports etc The major surgical interventions include (r) synovectomy and possibly the formation of a capsu lar window (2) joint plastics (3) osteotomy (4) arthrodesis and (5) the removal of small very severely injured portions of the extremity chief requisite of the entire plan of treatment is relief of pain

In discussing the indications for the various types of treatment Pays states that in the very large number of cases of infectious arthritis seen by him

the epiphyseal necroses represent anæmic infarcts is g nerally rejected

As evidence in support of his theory Axhausen presents in detail the autopsy findings in a case in which fresh anamic infarcts were discovered at various sites in the skellton (epiphyses and metaphyses) of a man of forty six years who died of cirrhosis of the hver

The macroscopic and microscopic findings in the pathological bone foci are shown in illustrations and d scribed in detail. The fresh sharply circumscribed necroses of the bone and marrow were subchondral and at the epiphyses were more or less wedge shaped Histologically the bone within the foci was dead At the border toward the living bone the dead marrow was a homogeneous mass. This explained the light bordering strips in the macroscopic picture and the delicate thickening in the microscopic picture. In the area of thickening an extravasation of red blood cells was noted but no leucocytes were seen. The blood vessels in the area of the foci were filled to the point of bursting. Upon this hyperæmia and per haps also upon the diffused blood pigments, depended the macroscopically noticeable red areola which completely surrounded the dead areas periphers of the dead areas, signs of reparative activity were visible-connective tissue substitution of the dead marrow and beginning bony metabolism The bacteriological examination of the bone foci

showed a short non hamoly tic streptococcus From the multiplicity and the localization of the foci in areas in which embolic infected necroses occur most frequently and from the wedge shape of the foct the author concluded that the etiological factor was an embolic or embolic thrombotic occlusion of the arteries but in the sections no evidence of occlusion of the vessels was demonstrable. As the infectious element remained ineffective (there was nothing in the histological picture to show growth of the bacteria) the foci in the bone are to be charac

terized as typical anemic infarcts

tissue mass

The author reports also the case of a man forty one year of age with osteochondritis dissecuns of the knee in the diseased portion of the subchondrally situated epiphyseal area which otherwise consisted of hving bone evidently formed by metabolic activity and transformed into mucoid connective

In addition he reports three cases of dry osteomy clitis which healed spontaneously intectious excitants either did not enter the focus at all or their g owth was stopped or markedly in hibited by the immune substances of the body

Numero s companions with the findings of other investigator und arguments in support of Axhausen s theory are given which cannot be included in an abstract Besides the facts proving the occurrence of anamic infarcts in epiphyses and metaphyses bones view are given regarding the development of other diseases of the bones which are beheved to be related to anamic infarcts and their sequela

Beckman T and Ivarsson G So Called Chon dromatosis of Joint Capsules (Uebet sogena. a Chondromatose der Gelenkkapsell dels chiture Scand 1928 Lau 551

The authors report a case or chondromata in the capsules of both knee joints in a woman fifty years of age. In one knee they resected the suprapatella bursa in which most of the chondromata had de

veloped and full function was restored to the joint Pathological study of the case showed that the chondromata were exactly like the chondromata of joint capsules first described by Reichel but did not support the hypothesis that they are true tumors

The chondromatosis is to be differentiated from arthritis deformans by the well marked tendency in the former condition of the synovial membrane to form cartilage and bone and by the clinical picture

Phemister D B The Pathology and Treatment of Pyogenic Artheitis Pennsyl on a M J 10 3 XXXII 52

Phemister states that the most important organ isms found in pyogenic arthritis are the staphylococ cus hamolytic streptococcus and gonococcus il points out that there is very little difference in the bacteriological findings in the atrophic and hiper trophic forms of arthritis. In both the organism most constantly present is the streptococcus vindans

The pathological changes in scute progenic at thritis vary according to the virulence of the cause tive organism and its mode of entrance into the The exudate may be serous scropuralent or purulent. Acute serous arthritis is usually due to a blood stream infection. In this condition the changes primarily affect the soft parts but occasion ally there is erosion of the articular cartilage w d resulting ankylosis. As a rule this type of arthritis subsides spontaneously under treatment by reet in bed immobilization and traction All for of infec tion should be eradicated. Frequently the marked

joint effusion calls for aspiration The seropurulent type of arthritis may be of hæmatogenous origin but as it is often a direc er tension from osteomy elitis the synovia is consider ably damaged and subsequent impairme t of the joint function may result. This type is frequently a forerunner of the purulent form. The treatment induated is similar to that of the serous arthritis but if the fluid continues to be found cloudy on asparation drainage of the joint should not be delayed

The purulent type of arthritis produces changes in the entire joint. There may be erosion of only one side of the joint but usually both surfaces are in volved The presence of a dense area of bone show ing a greater density than that of the rest of the bone bordering on the joint and possessing an articu lar cortex which is intact is almost pathogromonic evidence of a joint seque trum. Occasionally though rarely there is a primary progenic infection of the epiphysis

The articular changes seen in acute progenic ar thritis and tuberculous arthritis are strikingly differ

BLOCK (Z)

ment While these abnormalities in themselves care no spinoisn they render the region in which they occur potentially weak and particularly sus cybble to strain or trauma. The abnormalities described by the author include spina bifida abnor malities of the bodies and transverse processes of the vertibers non union sacralization and calcification of the indumbir heaments

for low back pain viz abnormalities of develop

Cole discusses also the relation to low back pain of fractures in the region of the lower part of the back Kuemmell's disease spondvloisthesis sacrollac strain arthritis syphilis tuberculosis and Anoten Harting MD

llarris W Sacro Iliac Paln Lancet 1928 ccxv

In the male locking of the sacro iliac joint is safficient to prevent all but the slightest movement but in the female the bony surfaces of the pelvs are smoother the muscles are weaker and the joint is repalle of a greater range of movement. Therefore the female is more liable to sacro iliac strains and sedurations than the male.

Stans of the sarco iliac joint are of three types Stans of the sarco iliac joint are of three types Stans of the sarco iliac joint are of the subacute and (3) the subacute and (3) the subacute and (4) the subacute iliac il

All of the nerves in the region of the sacro ihac articulation supply the joint with branches. The herie supply of the joint is derived from the lumbo sacral cord the first and second sacral nerves the obturitor and that

obturator and the superior gluteal nerves

scro like pain must be differentiated from set

atca and the pain of signal cord disease arthritis of
the hip and sacral fibrositis. In the diagnosis it is

secessary to rule out also diabetes tuberculous;

nea growths of the rectum lumbar cord or cauda

equina and sacralization or hemisacralization of the

In subscute and chrone scatters a characteristic given to loss of the Arhilles perk indicating that the tentile process has passed inward from the particular and the process has passed inward from the particular and columns of columns and the particular and columns and the particular and the parti

Tuberculosis may attack the sacro iliac joint with the formation of a cold abscess

In osteo arthritis of the hip joint there is usually limitation of rotation and abduction of the hip with pain on movement the pelvis tending to move as a whole with the thigh movement. The roentgeno gram will show mushrooming of the head of the femur loss of the articular cartilage and disappear ance of the articular space with hipping from osteo phytes at the edges of the acetabulum. In many cases scattlact is a complication

NORMAN C BULLOCK M D

teoman W The Relation of Arthritis of the Sacro Iliac Joint to Sciatica Lancet 1928 cctv

The author reviews 100 cases of sciatica admitted to the Royal Bath Hospital Harrogate England In 36 per cent arthritis of the sacro iliac joints was

Yeoman states that sciatica seems to be the result of joint distention with pressure on the lumbosacral cord and spasm of the pyriformis muscle. Strains of the sacro liac joint may be a predisposing factor but in England are not a common single cause of the condition.

The treatment of sciatica should be along the lines of that indicated in arthritis and periarthritis of other joints. In the past few years alcohol in jections and forcible stretching of the nerve under anasthesia have been completely abandoned in favor of hydrotherapy and other conservative measures.

Robert V Frasway MD.

Withelm R New Contributions on the Etiology of Malformations of the Neck and Head of the Femur (New Bettrage zur Actiologie der Schen kelhals und Schenkelkopfverbildungen) Arch follog u Unfall Chr 1028 XXI 537

After a review of the literature the author reports five cases of malformation of the neck and head of the femur

The first case that of a fifteen year old girl with cora vara was of particular importance be cause of the minute histological examination by Schmidt

In the author's opinion it is certain that congental cox a vara cannot be ascribed to a single cause since on the one hand the theory that the condition represents the first degree of a defect of the femur is well supported by the toentgen findings and on the other hand the histological observations made in his first case support Bose's theory that the cause is a chondrodystroph. Mueller sthoory that the condition is similar to congenial pseu darthross of the leg has no support and the theory that intra uterine pressure is a cause has been generally rejected.

The author's second case was that of a twelve year old girl with an endocrine disturbance (a mild form of my acclema) and congenital cora vara. The basal metabolism was 30 per cent below normal but could be brought promptly to the normal level by the administration of thyroid.

in the last seven years be operated upon only nine ten joints. He emphasizes that if the patient is not very anxious for the return of function or has become so accustomed to narcotics that the desire for them has suppressed his desire to cooperate actively if the musculature shows very marked atrophy if the function of the internal viscers has been severely affected by the chronic sepsion or if the prerequisites affected by the chronic sepsion or if the prerequisites affected by the chronic aspiss or if the prerequisites not be met. evo aurguithment of the joints is not be met. evo aurguithment of the joints is not any to be successful.

In conclusion I ayr discusses certain technical details of treatment such as the induction of anisesthesis of the joint capsule and cavity and, sepsis the replacement of the synovia thesoftening of cicatricial tissue and the technique of synovectomy. BLOCK (Z)

Rixford E Lesions Produced by Forced Abduction of the Shoulder Surg Clin N Am 1928 viu 1299

When the limit of motion of a di arthrodial joint is reached in any direction the ligamentous apparatus of the convex side becomes taut and resists further motion in that direction. If the force applied is severe enough something must give way.

Most abduction injunes of the shoulder are due to a fall with the hand and arm thrown forward for protection and the arm in promation. The greater tuberosity strikes the upper border of the glenoid As a result of this stress the expectival injunent requently gives way at it bower portion where the as a sprain. If it is more severe it will result in dialocation of the head of the humers.

If the capsule does not give way the tension may cause either a fracture of the surgical neck of the humerus or a fracture of the neck of the scapula

In young persons a compression fracture may consist in separation at the epiphyseal line of the head of the humerus. Compression may cause also a shearing off and downward displacement of the greater tuberosity a crushing fracture of the upper nart of the glenoid or a buckling fracture at the

surgical neck of the humerus
ROBERT V FUNSTON M D

LeFort R and Ingelrans P Mild Osteomyelitis of the Vertebras (Ostéomyclites vertébrales à forme atténuée) Bult et mém Soc nat de ch 1018 by 1445

The authors report two cases of osteomyelites of the spine. The first was that of a six jear-old girl who during the course of a septicemia developed multiple for ot bone infection one of which ultimately produced a possi aboves. The tensor causing the possible of the produced a possible of the produced in the produced as the produced as the produced of the produc

The second case was that of a sitten year-oil girl with a gibbus and a fistilloss tract on the left said of the spine which had been astrohed to Petis disease. At operation a sequestrum equal to two-thirds of the body of a vertebra was remote Recovery resulted rapidly. No bactenologistic administration was made: Kerioco Strep MD

Jensen J P Spondylitis Produced by the Abortion Bacillus of Bang (Spondylitis durch Barschea Abortbacillus verursacht) Hesp Ted 1918 lan 627

A farmhand seventeen years of age was send with pauss in the back and developed an abscess in Scarpa s triangle. There was a slight scolous but to glubus formation. The rontingnogram showed the third and fourth lumbar vertebra to be broken down affectioned out and connected by considerable new bone formation. The third lumbar vertebra had well as the second of the

The abscess in Scarpa's triangle healed after three punctures. Its contents were sterile "Are the patient had been in the hospital for ten months the roentgenogram of the spinal column showed distinct signs of healing and there were no longer any symptoms.

As the abortus bacilius of Bang was being in vestigated at that time tests for that organism nere also made Agglutination and complement fixation In the author's opinion it was were positive established with considerable certainty that the infection was due to the Bang organi m The patient had worked on a farm had taken part in the herding of cattle and had often drunk of uncooked While engaged in this farm work he was mılk attacked by a febrile disease with a course and temperature which although not absolutely charac teristic, nevertheless suggested an infection with the Bang bacillus A distinct reaction to this bacillus was present even after two years

Previously reported complications of this infection which is related to Vidita to eet include orichits membranous colins and endors distributed in the control of the control of the UR Roger described a case of spondylities tell in fever which was very similar to the case reported this article.

Cole P F X Ray Examination of the Lumbo sacral Region with Reference to Low Back Pain J Missouri State M Ass. 1928 227 561

Modern roentgen ray examination has revealed a new group of conditions which may be responsible such as might be found in a simple connective tissue new growth

It is suggested that complete absence of the tibia absence of the lower part of the tibia congenital fracture of the tibia with shortening of the bone pseudarthrosis of the tibia without shortening of the bone and simple bends of the tibia may be due to malformation and represent different grades of the one pathological condition. There is a certain amount of evidence which suggests that in so called pseudarthrosis of the tibia the disturbing influence is transmitted by the germ plasm

NORMAN C. BULLOCK M D.

Hughes W K Hallux Valgus J College Surg Australasia 1928 1 214

Operations for hallux valgus are all based upon the fact that the deformity is inherent in the bone and inflammatory conditions arising therefrom While the inflammation of the bursa and the perios titic exostoses in the vicinity cause pain and dis comfort the head of the metatarsal bone is never enlarged and its articular cartilage is seldom involved

to any appreciable extent

is the obstacle to restoration is the contraction of the skin and soft tissues between the first and second digits and of the lateral metatarsophalangeal liga ment of the first digit the author divides these struc tures completely A skin graft may be necessary if the valgus is marked. The big too is then bandaged in an over corrected position and the patient allowed to walk as soon as the graft is adherent. All exostoses are chiselled off and misplaced sesamoid

bones are removed before the flaps are sutured The author believes that hallux valgus may be due to congenital shortening of the lateral meta tarsophalangeal ligament rather than to the wearing

of poorly shaped shoes NORMAN C BULLOCK M D

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

The Surgery of Muscle and Tendon in Relation to Infantile Paralysis Proc Roy Soc Med Lond 1928 xx11 243

During the acute stage of infantile paralysis which lasts from one to six weeks the treatment of the muscles should consist solely of rest with measures to prevent postural deformities During the period of convalescence massage electrical stimulation and other treatment should be directed only to the affected muscles The recumbent position should be maintained until the spinal column can be kept erect b) mu cular power and as long as there is any weak tess of the gluteal muscles

The abduction splint for the shoulder the caliper plint for the knee and simple splintage to support the foot will usually prevent deformity and over stretching of the weak muscles while moderate activity is allowed These apparatus must be used until it is evident that further weakness will not

follow their removal They should not be discarded suddenly The indication for reduction of splintage the ability of the patient to hold the limb in the nosition which splintage insures Splints to prevent deformity due to joint instability or overaction of stronger muscle groups should be retained unless

these tendencies can be corrected surpically As a rule the orthopedist does not see the patient until long after deformity has been established Survical attempts at tendon elongation or division should then be made only when (1) correction of the deformity will improve function (2) division or elongation of tendons is necessary to correct the deformity or (3) the power of the shortened tendon cannot be utilized by tendon transplantation at the time of the operation. With regard to tenotomy it is well to remember that a shortened tendon is usually an active tendon It is a safe rule never to divide a tendon for the correction of deformity alone

In the discussion of the treatment of flexion con tracture of the hips emphasis is placed on gradual mechanical correction in three stages (1) correction of the lordosis by flexion of both hips while the spine and one flexed hip are immobilized in plaster of Paris (2) gradual extension of the other leg in a Thomas knee splint and (3) incorporation of the corrected limb in plaster with the spine and similar gradual extension of the other leg Surgery is seldom indicated when this deformity is the result of infantile paralysis

Dunn discusses tendon transplantation from the historical anatomical and physiological viewpoints Successful results depend upon observance of the following rules

Correction of the deformity must be complete previous to the operation

2 The transplanted muscle must run in a direct line from its origin to its insertion

3. The muscle must be of sufficient power to

meet the strain to be imposed upon it When the mu-cle is weak transference of muscle power may be of advantage as an adjuvant to other procedures such as tenodesis and arthrodesis Suc cessful results depend also upon whether the trans planted tendon can be trained to perform its new function Re education of an isolated tendon to act apart from its group is more apt to be successful in the upper extremity than in the lower extremity. In the leg there are only two muscle groups (1) the anterior tibial and (2) the posterior tibial which includes the peroneals and the tendon of Achilles No tendon transplanted from the peroneal or posterior tibial group will be effective in overcoming the loss of active dorsifle tion

Dunn discusses the treatment of deformities of various types. He states that the only transplanta tion of value for quadriceps insufficiency is trans ference of either the tensor fasciæ femoris or of the sartorius to the patella. In deciding whether to choose the former or the latter Dunn determines which is the stronger by observing whether the leg is turned out by the sartorius or in by the tensor when

In the third case a case of bilateral coxa yara in an adult the histological picture was that of subchondral fracture with callus formation and foci resembling osterus fibrosa As a whole, the picture suggested Perthes disease

In the fourth and fifth cases the condition re

sembled estents fibrosa

In the first four cases the malformation was un doubtedly of hereditary origin as malformations of bones were found also in other members of the patient's family HACKE BROTH (Z)

The So Called Congenital Pseu Wade R R darthrosis of the Tibla J College Surg Australasia

z 181 India k The Pathology of Congenital Pseu darthrosis of the Tibla J College Surg tustralaria, 1 1Q4

WADE states that the so called pseudarthrosis of the tibia of congenital origin is not merely a fracture that has failed to unite but the result of a definite pathological condition of the bone evident in the roentgenogram which weakened the tihia led to its fracture and prevented union of the fracture. As a rule the disease affects the tibia only and at only one site the lower middle fourth of the bone but in some instances it involves both the tibia and the fibula

Before fracture the condition is usually found in the newborn since the fracture occurs early. The leg curves forward in its lower half \ ray examina tion reveals at the site of the curve at the anterior edge of the tibia an area of rarefied bone beginning at the periosteum extending either partly or com pletely through the depth of the tibia and varying in length from 2 5 to 3 7 cm The \ ray appearance is similar to that of osterus fibrosa cystica. The fibula becomes thickened and curved probably be

cause of shortening of the tibia Fracture of the tibia may o cur without fracture of the fibula but because of the mability of the fibula to support the weight of the body a fracture of the

fibula occurs sooner or later Union following fracture is slow and incomplete No callus is thrown out and the union is soft allow ing bending for a considerable time. The roentgeno gram reveals fibrous union with persistent porosis at the site of the fracture

In cases of frank pseudarthrosis the bone is atrophied The atrophy is especially marked in the to ver fragment. In pseudarthrosis that has existed for some time the condition of the tibia and fibula is

identical

While the roentgen appearance suggests osteitis fibrosa the fracture occurring in the latter cor dition tends to unite and union is of a normal character The union occurring in congenital pseudarthrosis of the tibia simulates that occurring in osteogenesis imperfects but in osteogenesis imperfects solid union is not so long delayed

The author suggests that in congenital p endar throus of the tib a we have a condition of disordered osteogenetic function at the juncture of the lower and middle thirds of the tibia and perhaps also in the fibula which is responsible for the original paths logical changes the union that yields and bends and the non union

The treatment generally adopted in the authors cases is the use of a sliding bone graft from the same side Retention of position has been attempted by the application of plaster of Paris for a short time followed by the application of a double trough tin splint. At a later stage when walking is possible a moulded sole leather boot extending to the knee is ordered

The chief points in the article are summarized as follows I There exists as a definite entity a condition in

the lower fourth of the tibia in which at birth may be found an area in the bone with a roentgenographic appearance similar to that found in esteris fibresa c) stica-areas of porosis crossed by a few bone trabeculæ

2 This condition causes a swelling of the bone and usually forward bowing

A fracture may be present at birth or occur subsequently

4 The fracture may be followed by (a) a p-tuder throsis with no tendency toward bone regeneration or (b) union which occurs not by means of callia but rather by permeation of the affected area by new bone and is soft and yielding for some years before consolidation becomes firm and the bore is able to bear weight 5 Whether a pseudarthrosis supervenes or un on

occurs there is always pronounced shortening of th leg and foot

6 The outcome is usually not good Bone graft ing gives the best results

7 It appears that there is a deficiency in the power of osteogenesis at this part of the tiba the cause of which is obscure

INCLIS reports his findings in a study of specimens from three cases of congenital pseudarthrosis of the tibia The essent al part of the lesion in resected por tions of the disphysis seemed to be the centrally situated connective tissue which was partly fibrous and partly fibroblastic Certain changes partly of a necrotic nature which were present in the bone encycling th c tally situated connect to tissic were of only incidental interest. The appearance if the resected portion of bone in each of these cases suggested that there had been a fracture which had united The greater difficulty experienced in sawing through the specimen at the line of fracture than immediately above or below that line indicated that the capacity to form bone had persisted in this area In one case there was a congenital malformation of the fourth metatarsal bone and the phalanges of the fourth toe In the one case in which a bacteriolog cal examination was made the cultures proved

In one case the macroscopical and microscopical appearances of the central connective tosue were MacAusland W R The Treatment of Congenital
Dislocation of the Hip by Open Operation
Surf Gunc & Obst 1028 xivn 607

The suthor states that the open operation which selved is the opportunity to study the pathological changes and involves much less danger than forcible manipulative and mechanical procedures may be at 60 advantage more often than is the customary particle Examination of the pathological changes often revisib an hour plass construction of the cap site naticed into eversion of the femoral neck, or an article site and afternit issues covered over the immediate with afternit issues covered over by the immediate of the covered over the sum of the covered over the co

Operative interference is indicated in the cases of children from four to eight years of age when one or two closed manipulations have failed. In the cases of older thildren it is the method of choice and in those of adults it is indicated to correct deformities

and reheve arthritic symptoms

Simple replacement of the head within the socket is the ideal method of treatment as it insures a good anatomical and functional recovery. It is applicable to cases in which the acetabulum is of sufficient dight to retain the femoral head and the shape of the head is normal or nearly normal. Marked in ternal rotation persisting after reduction may be corrected by osteotomy of the femur When simple replacement is sufficient the author applies a plaster spice from the breast line to the ankles with the hip in abduction and inward rotation and the knee flexed. The spica is worn for eight weeks. At the end of that time a new one is applied with the hip in ab duction of from 15 to 20 degrees and in marked in ward rotation with the knee extended. A plaster spica is used to maintain the hip in position for from six to ten weeks depending upon the stability and the mechanical problem involved. When the plaster spica is removed the hip spine and calves are mas saged and put through passive movements daily and the patient is taught to walk properly with the feet straight ahead to favor the return of muscle Swimming 1 a most benefic al form of balance exercise

When the patient's age or the extent of the pathological changes render simple replacement impossible reconstruction operations may produce satisfactory functional and anatomical results

Twelve cases of open reduction are reported GEORGE C HENSEL M D

an attempt is made to extend the knee. He believes that transplantation of the biceps or the inner ham strings may give increased stability to the knee but does not increase the power of extension

He states that no tendon transplantation will compensate for deltoid paralysis. In this condition arthrodesis of the shoulder joint is indicated provided the patient has good control of the scanula and a useful functioning hand

Tendons may often be used as ligaments to limit joint motion. In cases of calcaneus deformity for example a portion of the Achilles tendon may be

fixed to the tibia

The degree of tension under which the tendons should be sutured and whether the attachment should be to tendon periosteum or bone are still matters of argument. The author sutures trans planted tendons under considerable tension and not necessarily to periosteum or bone

CHESTER C GUY M D

kidner F C End Results of Extra Articular Fixation of the Tuberculous Hip in Children

J im M Ass 1928 xc1 1865 Arthrodesis is done in tuberculosis of the hip in the belief that stiffness of the joint is the best possible result in that disease. The observation of Luglish and European surgeons that in many cases recovery with motion results can be explained only by the assumption that the disease is not so virulent in England and Europe as it is in America

Excision of the head and intra articular arthrodesis have failed because there is not enough healthy bone to form a firm union. In the past fifteen years several methods of extra articular fixation have been suggested In general these operations are of two types the insertion of bone graits from another part of the body and the use of bone from the trochanter

and ilium

The author has operated upon seventeen patients by the Hibbs method. This procedure consists in transposition and rotation of an esteotomized vertical nedge from the trochanter without removal of the muscle attachments so that it has bony contact with its own stumps with the roughened superior surface of the femoral neck and with a trap door groove in the side of the thum The only contra indication is the presence of fresh open sinuses

The postoperative treatment consisted in im mobilization in a plaster spica with the leg in abduction to hold the graft against the ilium The casts were left on for from three to nine months Weight bearing was begun usually after about six

months In twelve of the seventeen cases firm bony union resulted and in fourteen a good functional result was obtained In two cases free pus and wide destruction prevented union. In all of the sevente n cases the progress of the disease and all symptoms

The ages of the patients ranged from four to four teen years and the duration of the disease before operation from eighteen months to eleven years The patients who are the most comfortable at those with neither abduction por adduction and with from 20 to 40 degrees of flexion

MILLIAN L CLARK M D

FRACTURES AND DISLOCATIONS

Craig C A Series of Fractures of the Long Bones Treated by the Methods of R Illimitton Russell Med J justral a 1928 n 858

Craig reviews 114 fractures of lo g bo es treated by the method of Russell which is based on the belief that if the muscles are placed to an attitude of physiological rest their action on the fragments of the fractured bone may be disregarded. In Russell's opinion there is no evidence that a muscle in a state of rest acts as an elastic band

The author emphasizes the importance of early active motion in the treatment of fractures. He believes that restoration of the contour of the limb is of more importance than exact reposition of the PAUL C COLONY MD broken bone ends

Simon J Traumatic Posterior Dislocation of the Shoulder (Traumatische Schultergelenkslutzt a nach hinten] Casop Ith lesk 1928 levi 18

In minety dislocations of the shoulder seen in the Bruenn Chnic there was only one postenor dis location The latter was caused by a fall from a bicycle The patient could not recall whether he fell directly on the shoulder or on the outstretched hand In most cases posterior dislocation of the shoulder is the result of a fall on the outstretched hand which causes forcible inward rotation of the shoulder rount

In experiments on the cadaver the autho was able to produce such a dislocation eight times by forcable inward rotation of the raised arm In four instances infraspinous luxation resulted In the subacromial dislocations the joint capsule on the posterior aspect of the joint and the teres miner muscle were torn In the infraspinous luxations the

capsule was torn anteriorly and posteriorly In the case reported by the author reduction b Kocher's method was followed by complete recovery

KINDL (Z)

Fractures of Metacarpals and Magnuson P B

Phalanges J im M 4 s 1918 xet 1339

Magnuson states that deformities following list tures of metacarpal bones or of the phalanges are due to the action of the interesses or the lumbrica's In the application of splints to such fractures the

contour of the bone must be taken into co colera tion The dorsal surface of the metacarpal bones being almost a straight line Magruson u. is por terior splints for metacarpal fractu es calcis the are of the oblique type in which case tracts a by means of a banjo splint is better He objects to the practice of obtaining traction by suturing thre PAUL C COLONI MD the finger nail

son of blood is most beneficial and hastens the regeneration of blood. However a successful result cannot be expected when the loss of blood has been too great or the patient has been too long in a state of soils among

In secretal of the cases reviewed there was a retention effect here infusion and no p per cent this may be regarded as the cause of death. From experiments carried out on animals to determine the cause of these complications the author concludes that biod extravasted into the abdominal cavity is deformated but in contrast to blood defibranted in the contrast of the contrast of the contrast of the matter of the contrast o

Blood from the portal vein may also be re injected with harm Winiwarter (Z)

Gramén k Accident Transfusion of Leukæmic Blood Acts chirurg Scand 1928 km 369

The author reports a case in which seven weeks after a blood transfusion the donor was found to be suffering from acute myeloid leukæma. His death occurred two weeks later. The recipient who had been treated for a severely bleeding duodenal ulcer died two weeks after the transfusion.

No similar case has been mentioned in the liter ature. Experiments reported—even those performed in four cases of inoperable cancer in man—do not indicate that leukæmia can be transmitted by blood transfusion.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Middleton W 5 Venous Pressure tres & Anal 2028 111 360

Middleton reviews briefly the development of venous pressure studies and discusses the importance of such determinations in establishing the con dition of the my ocardium By estimating the venous pressure it is possible to determine the circulatory load on the right heart and indirectly the condition

of the left heart

Using the indirect method with the patient recumbent and the back of the hand or forearm on a level with the right auricle, the author has found the average venous pressure in the healthy young adult to range between 4 and 6 cm of water In the peripheral veins there is little if any respiratory variation under ordinary conditions. Chevne Stokes respiration is accompanied by a rise in the venous pressure during approx and a fall during by pernagra Voluntary over ventilation also leads to a fall in the venous pressure. In asphyxia there is no constant change until cardiac failure leads to an

increase in the pressure Other factors being equal lower readings are found in women than in men. The pressure tends to rise during the day and to fall with rest in bed Elevation of the alreolar carbon dioxide increases the venous pressure. The size or prominence of the peripheral veins has no bearing on the pressure and the level of this tension is entirely independent of the arterial blood pressure as well as of peripheral arteriolat dilatation or constriction

Middleton studied also the venous pressure in cardiac decompensation following venesection and during general anasthesia. He draws the following conclusions

t Venous pressure determinations reflect accu rately the right heart load 2 Venous hypertension excluding local inter-

ference with venous return and the unusual cases of phlehosclerosis means myocardial failure 3 In cardiac decompensation the critical level of o cm of water (a maintained or an ascending curve)

is an excellent guide to venesection a valuable method of combating failure of the right heart 4 Preliman y studies on the course of venous pressure in general anaesthesia indicate decided changes apparently dependent upon respiratory influences physical effort and carbon dioxide ten

I COB W MORA WD

Arteriorenous Aneurism Surg Holman E F Clin 5 Am 1928 vin 1413

sion in the inspired air

Holman reports two arteriovenous aneurisms in volving the iemoral vessels and one intracranial

lesion He emphasizes the careful investigations necessary to determine the exact nature of an aneurism-whether it is a simple sacculated or an arteriovenous aneurism

The characteristic features of the lesion are (1) a thrill and bruit continuous throughout the cardisc cycle but intensited during systole (2) a transient increase in the blood pressure and a fall in the pulse rate when the fistula is closed by digital compres sion (3) a high content of oxygen in the venous blood obtained from the veins near the ksion as compared with the oxygen content of blood removed from veins remotely situated

In cases of arteriovenous aneurism the artery alone should never be ligated proximal to the fistua as is so frequently done for the cure of simple aneu Such protumal ligation is contra adject d because of the danger of gangrene of the limb beyond the fi tula

Arteriovenous communications should be the mated because of the associated development of cardiac dilatation. The operation of choice is quid ruple ligation of the arters and vein proximal and distal to the communication followed by excision of the fistula

The elimination of a fistula may precipitate car diac decompensation incident to o erds tention of an already dilated heart To prevent this excessive dilatation venesection may be nece sary in the course of the operation to withdraw the t creased volume of blood which has accumulated in the cir culatory system during the existence of the fistula

Prolonged care is necessary after the operation to prevent my ocardial strain from the inceuse in diastolic pressure following the elimination of the TACOR M MORA MD fistula

BLOOD TRANSFUSION

Clinical and Experimental Contribu Filatov A tions on the Effect of Blood Extravassted into the Body Cavities (h) nische und experimentelle Bentraege zur Berinflussung des in die Koerpe haeble ergosseren Blutes) 4rch f klin Chr 1918 cu

184 The author fi st describes the technique of re infu.ion He emphasizes that the blood should be removed from the abdominal cavity by means of a scoop as when it is removed with a tampon it is usually hamolyzed After its removal he filters it through eight layers of gauze To the futra e & 4 per cent citrate solution is added in the proportion of 2 1 000 The injection is made into the vein af The blood must be carefully projected the elbow against contamination

Twenty six cases of re infusion are reported The author believes that in the majority of ca es re infa narrosis is a function of the concentration of the nar colic in nervous tissues the law of all or none holds good that is when the concentration is effective complete paralysis results

Winterstein identifies the all-or none law of nar coss with the long recognized all or none law of excitation. In spite of the he states that the in tensity of narcosis varies within certain limits directly with the concentration of the causative agent. This is contrary to the author's findings.

Mandel has come to the conclusion that the all or name law applies only to nervous structures whiterstem explains this by stating that in non zeroos directures there is no paralysis of conductivity. However studies on automatic nervous tissue fifth have demonstrated that Wintersteins theory is moorrest On the soldard intestine the degree of the narcoiss do not at all correspond to the degree of the narcoiss. Even here the all or none law of success seemed to apply. The same law seemed to ladd good also in experiments on the respiratory

In the last part of his article the author opposes Winfriems is through at the all or none law of excitation its between the same as the last of none law of excitation its believes the same as the same as the last of none law of excitation increase first led to the all or none law of excitation increase and last of none law of excitation for none law of excitation does not apply (autonomic nervous tessue) and the allor none law of excitation (in muscle issue) is operative where the corresponding law of excitation and that the allor none law of narcoss is not prive that the allor none law of ancross is not called with the all or none law of excitation and that the reaction of nerve cells to narcotics is very different from that of other cells Genewry (Z)

Franken H and Schuermeyer Collapse and Narcoss The Determination of the Volume of Circulating Blood in Ether Avertin and Acetyl ene Anæsthesia and Its Significance (Kollaps und Narkose Ermittlung der zirkulerenden Blutmenge bei Aether Avertin und Acetylen Narkose und ihre Bedeutung) Aarkose u inase 1928 1

The authors carried out experiments to determine the variations occurring in the volume of circulating blood in narcosis induced by different anaesthetics and their relation to conditions of collapse. For corresponding experiments on human beings they chose ether and avertin to lower the blood pressure and acctulene to raise it.

In ether and avertin anasthesia the fall in the blood pressure was paralleled by a decrease in the volume of the circulating blood. Therefore the conditions were those of collapse. In nareylene anasthesia the volume of the circulating blood increased with the increase in the blood pressure and the effect was that which is sought by the use of the usual therapeutic measures in collapse. The condition of the circulation brought about by either conditions of the circulation brought about by either decreased volume of circulating blood is, not only restored to normal by the subsequent administration of nareylene but is even carried beyond the normal

The authors do not say where the stagnant blood remains in collapse but it appears from their state ments that displacement of the blood volume into the splanchnic region occurred

Franken and Schuermeyer conclude that when an operation is imperative in the presence of collapse or when collapse is threatened the anæsthesia should be induced with acetylene Cotiev (Z)

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Stegemann II The End Result in a Case of Embolism of the Pulmonary Artery Gured by the Trendelenburg Operation (Daueregebnis ensedurch de Trendelenburgsche Operation scheilten Falles von Embohe der Art pulmonalis) Murnchen med B. Chauler 1918 ixv 1165

The author reports the end result in a case of embolism of the pulmonary atterty which was oper ated upon successfull by you hirschner in 1921 by the Tr addention method. The examinations were carried out over a period of four years with all possible aids to internal diagnoss and with the assist ance of internats. The apex best curve electron are reproduced. As no pathological findings are reproduced. As no pathological findings obtained by the demonstrated in either the heart or the lungs a complete and permanent cure was obtained.

STECEMANN (Z)

ANTISEPTIC SURGERY, TREATMENT OF WOUNDS AND INFECTIONS

Regenbogen J H The Relief of Stasss in the In Barned Blood Vessel by Means of Alkali (Ueber die alkalotische Beseitigung der Stasse im entzien deten Blutgefaess) Frankfurt Zischr f Path 1928 xxxy, 1850

The author's investigations regarding the relief of stasts in inflamed blood vessels by means of alkalies were repeated by Merk. Merk found that local stasis was relieved not only by injected carbonate but all o in non injected control animals by simple retention of the member in tap water. He therefore

questions the value of the alkali In reply the author reports in detail a large series of experiments which lead to the conclusion that in a manner similar to the direct administration of alkali as in his standard experiment all of Merks, a station of the indiamed sea indirectly. Such an alkalinusation is capable of causing recession of the inflammatory reaction with relied of the stass. The author therefore a es in Merk sexperiments further confirmation of his theory. From the results of the intest gations he concludes that the cause of in diamnatory provises is about for the results of the manufactor provises in about for the results of the confirmation of instances.

Zoeller C J Vaccination Against Tetanus with Tetanus Anatoxin (La vaccination contre le té tanos par l'agatoxine tétanique) Arch med mil

1928 ixxxx 65

Even repeated injections of crum do not wholly protect against the development of tetanus as the

more Irequently the serum is injected the nore upulight its exercised. The author therefore attempts to produce a permanent immunity by vaccination with snatour, abatterin is prepared isone the temby treating the latter with formain and best (a corn of formain to a later of form from four to sax we ks in the incubator). The anatom is not tonce if his a migration properties and a proposition and thermostable. Prophylactic treatenest with anatomic protects against several times the light dose of totin. The preceptability serves in the titration of the anatom.

Human beings are able to tolerate the subcut neous administration of even 5 cm of another without a reaction. Immunication is begun with the subcutaneous administration of r cm. After four teen days 2 cm are given. After another wet it may be demonstrated that 1 cm of blood will neutralize from one to ten times the leibil doss of toxin. If the second injection is given after four needs by a third does it may be directly described by a third does it may be increased one how the subcut in the second injection is given after four weeks the neutralizing power is increased one how the subcut in the sub

The author suggests that active immunication with anatoxin be done in the cases of all persons who are exposed to tetanus such as gardeners raders and soldiers. In military surgery protective

inoculation would be of great value.

In acute danger of tetanus serum prophylins must retain its place but active immunization may be begun at the same time and should protect for a year.

KRECTER (2)

ANÆSTHESIA

Mansfeld G The All or None Law of Narcosland the Critique of Hans Winterstein (Da. Allooder Nichts Gesetz der Natkose und die Knuk Hans Wintersteins) Arch J erper Pall u Phomakol 1028 extu 168

In the author a long study of the relatio hap be tween the toncentration and the effect of a roote it was discovered that for the find rest excitability of muscle and also for all other reviews fanctions there is only one parcolute effect. Insuley, the complete abolition of function and that for the determination of the threshold concentration of a narcotic the unit experimental periods are too short A definite on centration may remain ineffective for several boars and then cause a complete reviewship paralysis and then cause a complete reviewship paralysis.

The depth of narross was determined quant tatriely from the measurable variations in the reflexes after a known concentration had worked on the nervous tissues for a sufficiently long pend of time. Whereas in non nervous organs the effect of

narcosis is a function of the concentration of the nar totic in persons tissues the law of all or none bolds good that is when the concentration is effective complete paralysis results

Winterstein identifies the all or none law of nar coss with the long recognized all or none law of excitation. In spite of this, he states that the in tensity of narcosis varie within certain limits directly with the concentration of the causative areat. This content to the author's findings.

Sect. In is contrary to the author's indings. Minsfeld has come to the conclusion that the all or more law applies only to nervous structures buttersten explains this by stating that in non zerous structures there is no paralysis of conductivity. However, studies on automatic nervous inside (Edd.) have demonstrated that Wintersteins (Edd.) have demonstrated that Wintersteins (Edd.) have demonstrated that Wintersteins of their parameter. On the 190 lated intestine the degree of the narcoiss. Even here the all or none law degree of the narcoiss. Even here the all or none law degree of the narcoiss. Even here the all or none law degree of the narcoiss. Even here the all or none law degree of the narcoiss. Even here the all or none law degree of the narcoiss. Even here the all or none law degree of the narcoiss. Even here the all or none law degree of the narcoiss.

In the last part of his article the author opposes whileristicals theory that the all-or none law of part costs it the same as the all-or none law of excitation. Be better that investigations in narcosts first led to the all-or none law of excitation. The all or none law of excitation facts of access applies where the all or none law of excitation does not apply (authonomic nervous tissue) a "die all or none law of excitation (in muscle tissue) is operative where the corresponding law of articles and the all-or none law of articles even to prove that the all or none law of articles is not active the all-or none law of excitation and that the reaction of nerve cells to narcotics is very different from that of other cells. Genewery (Z)

Franken II and Schuermeyer Coll-spae and Narcosis The Determination of the Volume of Circulating Blood in Ether Avertin and Acetyl ene Anaesthesia and Its Significance (Kollapa und Narkose Ermittlung der zikulierenden Blut menge bei Aether Avertin und Acetylen Varkose und ihre Bedeutung) Narkose u Anaer 1928 i 417

The authors carried out experiments to determine the variations occurring in the volume of circulating blood in natroosis induced by different anesthetics and their relation to conditions of collapse. I or corresponding experiments on human being they close ether and avertime to lower the blood pressure and activities to raise it.

In other and avertin anesthesis, the fall in the blood pressure was paralleled by a decrease in the volume of the circulating blood the Therefore the conditions were those of collapse. In narcylene anasthesis the volume of the circulating blood increased with the increase in the blood pressure and the effect was that which is sought by the use of the wast that which is sought by the use of the usual therapeutic measures in collapse. The condition of the circulation brought about by either amasthesis with its lowered blood pressure and marshesis with its lowered blood pressure are castored to normal by the subsequent administration of narcylene but is even carried beyond the normal

The authors do not say where the stagnant blood remains in collapse but it appears from their state ments that displacement of the blood volume into the splanchnic region occurred

Franken and Schuermeyer conclude that when an operation is imperative in the presence of collapse or when collapse is threatened the anæsthesia should be induced with acetylene COLLEY (Z)

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Anderson C C. The Radiological Diagnosis of Hydatid Infection Brit J Radiol 1928 1, 428

High tide infection is very common in New Zea. Band The paratite gams entrance through the mouth and the embryo is set free by the digestive funcion in the properties of the bowel and gams in the blood stream. Thus it reaches the entrance to the blood stream. Thus it reaches the entrance to the blood stream. Thus it reaches the entrance to the blood stream. Thus it reaches the circulation. When there is sufficient contrast be traced to the standard cyst and the surrounding time three the hybrid cyst and the surrounding time three traced contrast the correlation. Supplementation of the cyst is comparatively simple and the interpretation of the contrast mindings is not especially difficult. However, in all cases it is necessary to know that the tentile for the contrast with animals expecially done for this diagnosis depends upon the expeditional test.

When the affection occurs in the thoracic cavity or in the skeleton there is sufficient contrast be tween the density of the cyst and the surrounding tissue to reveal the presence of the cyst. When the cyst occurs in the liver the resulting irregularity of the dome of the diaphragm calls attention to its presence When the cyst is in the abdomen itself the diagnosis is difficult. Often its presence is re yealed only by displacement of the viscera Ppeumo peritoneum has been advocated as a diagnostic pro cedure but its use in cases of hydatid cyst involves considerable risk. The roentgen sign of a cyst in the lung is a circular ovoid or elliptical shadow of homogeneous density If the condition is complicated by sepsis its differentiation from pulmonary abscess is impossible. For its localization roentgeno grams in both the postero anterior and the lateral planes are necessary Charles H HEACOCK M D

Glasser, O Lorimann U V and Seitz V B The Condenser Dosimeter and its Use in Measuring Radiation Over a Wide Range of Wave Lengths Am J Reenizenol 1928 22 505

Many problems to present-day radiation dost metr, cannot be solved satisfactorily with the sval able desage unstruments. The condenser dosmetter was devised to meet the need for an in trument involving modified measuring methods. It consists of two parts (j.) a condenser to which an ionization chamber is attached and (2) a string electrometer of improved type including parts of the parts (j.) a condenser to which an ionization chamber is attached and (2) a string electrometer of age measurements of the contract of the parts of the p

the field of radiation to be measured. After appour for a specified time the condenser unit is again returned to the electrometer and the host of charge aread directly on the scale. Measurement has do tained may be converted into R total continuous and continuous continuous areas of the continuous continuous practical applications as do can be application of the continuous practical applications and testis conditional and various experiments and testis conditional and various experiments.

In addition to the uses outlined the condense dosimeter is extremely well adapted for protection measurements since the condenser unit can be full in position over an extended period of lime full in the position over an extended period of lime full in the stray radiation is to be measured. Rose genographic exposure and rose titigenoscopic limes can also be conveniently determined with this instrument.

Evans W A and Leucutia T The Massive and Hypermassive Radiation in the Treatment of Skin Cancer Brit J Radial., 1928: 1 396

The authors review the development of the reat gen ray treatment of cancer of the skan and divide it into four periods (1) the period of b. in s (2) the period of fractional treatments (3) the period of combined methods and (4) the period of massive or hypermassive radiation

The massive or hypermassive dose is of sufficient strength to produce a direct destructive action As reliance is placed on any indirect effects or on the secondary tissue reactions produced by the radiation. The amount of radiation necessary to produce a massive dose is from 100 to 200 per cent of the shin unit dose (a good erythema dose in the normal sk.) A hypermassive dose is several skin units. This massive dose need not necessarily be given at one time but the fractional massive dose differs from the true fractional dose in that an erythema is produced. The true fractional method is contra indicated in cancer of the skin. The authors prefer to give the massive dose at a single application. For small superficial lesions they employ the hypermasave dose but for larger lesions they use the massive dose which is safer

The first requests of massive and hypermassive rentgen are therapy is a primary destructive (cytocaustic) effect of the rocetig a rays on the caronam cells. The second is preservation of the sea mad cells surrounding the caronoma. These man tells surrounding the caronoma. These man tells surrounding the caronoma. The postulates of fundamental importance for the technique employed in the They are directly repossible also for our rather that tray classification of skin cancers into the following groups (f) intall suppreficiel conduits or ulterated fessions from to

5 cm. in diameter (2) medium ulceronodular lesions from t to to cm in diameter (a) fungous lesions the the characteristic of which is proliferation above the skin level (4) large superficial, ulcerated lesions 10 cm or more centimeters in diameter but only 1 or 2 cm. in depth (c) large deep ulceronodular lesions 10 cm or more centimeters in diameter and more

than 2 cm in depth There is no doubt that the hypermassive method represents today the best method in the treatment of cancers of the skin especially when the lesion is in its incipient stage and no other method of treat ment has been used. Most roentgenologists agree that the incidence of permanent cure is more than 90 per cent CHARLES H HEACOCK M D

MISCELLANEOUS

Findlay G M Ultraviolet Light and Skin Can cer Lancel 1928 ccxv 1970

The frequency of skin cancer among persons en gaged in outdoor occupations and in countries and locations with much sunlight and the fact that the common sites of the lesson are areas of the body which are exposed to the light suggested to Findlay that sunlight particularly ultraviolet light might be of importance in the genesis of cancer of the skin

In experiments on mice in which the animals were exposed to a mercury vapor lamp with a spectrum said to range from 2 coo to 10 140 A u it was found posible to produce papillomata and malignant epitheliomata of the skin by exposure to the ultra violet light for a period of not less than eight months Mice which were tarred and exposed to the ultra whe hight developed cancer in a shorter time than mice treated with either the tar or the ultraviolet

light alone GERTRIME REARD

Physical Measures as an Adjunct to Martin W Surgery J Hed Soc N Jersey 1928 xxv 671
Doran W G Physical Therapy Aids in Fracture
and Orthopedic Cases J Med Soc \ Jersey 1028 XXV 676

MARTIN confines his discussion to the various forms of light and electrical currents. found that the use of the static wave current and diathermy greatly shortens the period of disability in cases of sprains that open wounds heal more promptly when they are treated with some form of light and that paralysis is benefited by the in telligent application of galvanism

He believes that the early use of electrical currents in the treatment of fractures has not been properly investigated by surgeons and that it will greatly reduce the after treatment necessary

He recommends physical measures both before and after surgery in many chronic abdominal conditions

DORAN discusses the treatment of acute pain in the shoulder acute foot strain and peripheral nerve injuries by electrotherapy heat light hydro therapy rest exercise and posture. He emphasizes the necessity of distinguishing between an articular sprain and a fracture sprain as each requires a different form of treatment

An important part of the article deals with the treatment of fractures by physical therapy. The inury to the soft structures as well as injury to the bone is considered, and the treatment before and after fibrous union is described. Doran states that function of the limbs is best restored by exercises under the supervision of a competent instructor In conclusion he emphasizes the importance of cooperation between the surgeon and the technician Ceprotine Resen

MISCELLANEOUS

CLINICAL ENTITIES-GENERAL PHYSIO LOGICAL CONDITIONS

Bowen B D Vaughan S L and Koenia E C The Relation of Liver and Gall Bladder Disease to Diabetes with a Report of Liver Function Tests and Cholecystography in a Group of Cases of Diabetes and Alimentary Glycosuria Bull Buffalo Gen Hosp Buffalo \ 1 1028 11 41

The results of liver function tests and a study of gall bladder function by cholecystography which were made by the authors in cases of diabetes and cases of alimentary glycosuria were too inconsistent to justify definite conclusions but they appeared to be positive more frequently in the cases of diabetes than in those of alimentary glycosuria The authors suggest that there may be a relation between chole cystic disease and positive liver function tests in diabetes. If the liver was at fault in the cases of alimentary glycosuria this could not be demonstrated by the tests u ed

In the majority of the cases studied the retention of phenoltetrasodophthalem sodium was slightly higher than that established by Graham as normal Autopsy statistics show but a slightly higher incidence of gall stones in diabetics than is found at rou tine postmortem examinations

The evidence that cholecystitis may be a cause of disbetes does not appear to meet all the require ments necessary to establish such a relationship

IORN H GARLOCK M D

Bennett T I and Poulton E P Raymand s Dis ease Associated with Cancer of the Stomach 1m J Med Sc 1928 clyxvi 654

The authors report the case of a man sixty years of age who complained of sensitiveness to cold in his hands and seemed to present the typical picture of Raynaud's disease As a child the patient had

suffered from chilblains Treatment with faradism and later by intravenous injections of radium emanations was unsuccessful For the relief of the pain morphine was necessary Taylor removed the right inferior cervical symna thetic ganglion and was proceeding to perform

persarterial sympathectomy on the left radial and ul, ar attery when the patient died

Autopsy revealed a large carcinoma on the le ser curvature of the stomach near the esophageal open ing The removed cervical ganglion contained carci

noma cells of gastric origin

The authors have been able to find the report of only one other case of cancer of the stomach as o ciated with Raynaud's disease. They believe that the cancer cells in the ganglion are the cause of the CARL R STEINE M D Raynaud a disease

GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

Huener W C Agranulocy tosis (Schuler) and the Agranulocytic Symptom Complex 1/ & Int Med 1928 xln 893

Agranulocytosis usually begins suddenly during good health with a continuously high fever a fa t arregular pulse of poor quality malaise disphaga and dyspnæs Chills may occur and sorene s of the throat develops within three or four days. In about 50 per cent of the cases there is slight jaimlice Other more general symptoms may occur and death results after come for from two to seven days. In other cases the condition may have a more chion t course lasting for several weeks and showing re missions but it is usually fatal. Only six recoveres are on record

In the beginning the tonsils are enlarged and reddened and show white or relionish plags Soon they become covered by a dirty coat which on re moval leaves an picerated surface. Slough of my occur and spread and fector is present Hamorrhage is rare. The glands in the region involved are large and tender. In the late stages general examination may show bronchopneumonia enlargement of the liver and spleen and anal and vaginal ulcerations In about 10 per cent of the cases bacteriological examination of the throat bas revealed fusospirllosis The most important findings are the e of the blood examination The leucocytes decrease toward death to from 1 500 to 100 per cubic millimeter. The granulocytic cells decrease first and may disappear entirely Immature forms are not present but de generative forms may be found. The monocites may be temporarily increased. The erythrocites thrombocytes and hamoglobin and the coagulati a and bleeding times are normal or show only slight changes The Widal and Wassermann reactions are unchanged Blood cultures are positive in only about 10 per cent of the cases The organisms found are

The necrosing process may vary from a few spots in the mouth to deep gangrenous de truction of the ersophagus and laryny On microscopic examination the ulcers are seen to have three layers (1) a perrotic top layer (2) a necrotic layer extending into the muscles in which the cellular outlines are still pre served and there are streaks of bacter's thromoo i vessels and clotted blood but no leucocytes and (3) an ordematous layer of living and necrotic tusue

Hamorrhages and exudate are found in the lung pleura heart and pericardium. The absence of leucocytes in these foci is remarkable. In the d gest tive tract ulcers are frequently present. The liver may show enlargement cloudy swelling fatty

variable

digeneration and multiple foci of necrosis A minor swelling of the spleen is common. The lymph nodes specially those in the region of the involved area show enlargement with atrophy of the follicles and proliferation of the reticulo endothelial cells.

The disease occurs more frequently in women than in men and is most common between the thirtieth and fiftieth years of age. It is apparently not

contagious

Temporary improvement has followed repeated large transfusions and recovery has sometimes re suited from the use of a poly valent anti streptococcus serum and stimulating doses of 'x ray irradiation to the long bone."

The condition has been ascribed to endocrine dis turbance. By some it is believed to be related to ocute leukæmia. According to the theory most generally accepted it is an infectious process.

In the dagnoss it must be differentiated from (i) diseases showing agranuloss and oral necrosis sed as influenza and typhoid septicermia acute tenogrance leakema and aleukerma (Ehrich) (2) tenogrance leakema and aleukerma (Ehrich) (2) sed as a sed of the sed of the sed of the sed of the sed as a sed of the sed of the sed of the sed as a sed of the sed of sed of the sed of the sed of the sed of sed

vincents angina and monocy tic angina (Schultz) influenza and typhod differ in their course bettinology and pathology Acute leucopanic leucitions, and pathology Acute leucopanic leucitions, and many acute leucopanic leucitions are seen and the seen and

JAMES B BROWN M D

Birkhaug K E The Etlology of Erysipelas 4nn I 1 Med 19 8 11 524

Birkhaug first reviews the clinical history of trysipelas. He reports that in 90 per cent of cases of this condition he has isolated a specific type of streptococcus hemolyticus. The organism was tlentified by agglutination agglutinin absorption and animal protection tests In experiments on rab bits erysipelas invariably developed when the organism was applied to the skin Immune erysipe his serum protected susceptible animal against the localized en psipelas and the septicæmia which are ordinarily induced by intravenous injections of streptococcus erysipelatis. With the isolated toxins skin reactions similar to those of the Schick and Dick tests were elected Antitoxic principles which neutralized the specific towns were found in the blood serum of patients with erysipelas

An envipelas antitoxin which was made for chinical use give very good results especially when

at was employed during the first three days of the in fection. Of sixty eight susceptible persons who were treated with this antitorin to increase their immunity only one had a recurrent attack of the infection. William & Brais M.D.

Jacobson H P Coccidioidal Granuloma Califor

Jacobson discusses the treatment of coccidioidal granuloma with colloidal copper and reports four cases bringing the total number of cases now on record up to minety two

The author's first case was that of an acutely ill negro thirty nine years old who had several fluctuat ing masses below the left clayicle and sternal region from which pus containing the coccidiodes immitis was aspirated Marked improvement followed four injections of colloidal copper

In Case 2 injections of colloidal copper reduced a coccidioidal mass in the ankle and wrist

a coccidendal mass in the anile and wrist In Case 3 there were subcutaneous abscesses which were especially numerous in the supraclav cular and sternal regions. No improvement resulted from the copper treatment. Autops; revealed a generalized coccidendal granulomatosis

In Case 4 there were abscesses on the backs of both hands which showed marked improvement under treatment

The manner in which the copper acts is not known However as favorable results apparently depend upon a cumulative effect the injections must be administered regularly and over a long period of time. One of the author's patients had a relapse after the treatment had been discontinued for four contributions.

In spate of the virulence of the organism there are no recorded instances of direct transmission of coccidioidal granuloma from person to person or from animal to animal In studies on guinea pigs made to determine the manner in which the condition is transmitted the author found that the animals did not develop the disease when they were defected animals of when they were themselves exposed to infection by in fected animals or when they were themselves exposed to contact with infected animals

Jacobson believes that an intermediate hostprobably an insect—is responsible for the transmis son of the condition as in all of his patients the disease began with an insignificant papule or ade matous congestion on an exposed part of the body which may have been an insect bite

HARRY C SALTESTEIN M D

EXPERIMENTAL SURGERY

Poulton E I An Experimental Study of Certain Visceral Sensations Lancel 1928 ccxv 1223

In the author's experiments a toy balloon was in troduced into the esophagus and inflated with air by means of a catheter. A T tube allowed the connection of a manometer with a kimograph and a water reservoir to supply variations in pressure

within the rubber bag. On filling the bag became fusiform and the pressure measured indicated the pressure within the asophagus

Visceral pain was found to be due to stretching with consequent deformity of the nerve endings in the walls of the viscus. This accompanied a rise in the diastolic pressure or tone of the viscus II the posture was increased so that the bag could be more readily accommodated pain sensation ceased. Dur. ing systolic contraction the pressure in the bag sometimes increased but the tension on the nerve endings fell because the diameter of the viscus de creased Pain was absent but recurred as the wave passed and the diameter of the bag again increased

This phenomenon was further established when two rubber bags were introduced into the resophagus one above the other and compressed in turn by each peristaltic wave. The waves were not the result of swallowing and were unnoticed by the patient an example of secondary penstalsis. In further expenments a banum-coated bag placed in the lower cesophagus was inflated with water to a pressure of 40 cm, and a rubber bag was placed above it to record the passing of peristaltic waves. Pain was felt at once and was most severe during contractions. Dur ing swallowing the pain became worse and there was a contraction wave lasting twenty-seven sec onds When the rubber bag was placed below the incompressible bag pain was noticed as before but the lower bag recorded only an increase in diastolic pressure with no peristaltic waves. This was not due to compression of its tube as normal respiratory variations were noted. The author explains increased pun during peristalsis by the fact that the diastolic pressure remained constantly at 40 cm except during the middle of the wave when it was relieved for an

interval by the contraction of the muscular walls Similar findings were made in the case of the stomach Many clinical cases of gastric and duodenal ulcer were studied with special reference to the production of pain by the presence of gastric contents injected into the asophagus in which no pain was produced. Visceral pain is an affair of the whole visceral wall and not an isolated part of it and peptic ulcer produces painful effects secondarily

by causing a reflex increase in tone. The author's findings and those of other investigators seem to show that a direct peristaltic action relieves visceral pain but that the pain recurs when the tension on the nerve endings becomes re-established during penstaltic relaxation WILLIAM J PICKETT M.D.

Emerson W C The Effect of Ether Angethesia and Shock on the Calcium of the Blood I Lab & Clin Med 1015 xiv 105

Emerson studied the effects of ether anasthesis asphyxia pulmonary hyperventilation and shock on the serum calcium of dogs and concludes as follows

- There is an increase of 18 per cent in the serum calcium of the blood following ether angesthesia 2 There is an increase of 20 per cent in the serum
- calcium of the blood following asphy ma 3 There is a slight decrease in the serum calcium of the blood following anasthesia with hyper
- ventilation 4 A slight amount of asphyxia during ether anaisthesia is of value as it tends to raise the serum calcium content of the blood and thereby shorten the coagulation time
- 5 Shock has no effect upon the serum calcium of IACOB M MORA M.D. the blood

HOSPITALS MEDICAL EDUCATION AND HISTORY

How Social Service Supple MacEachern M T ments Treatment Mod Host 1918 Ext 89

The primary function of the social service depart ment of a hospital should be to assist the doctor in the scientific care of the patient through medicosocial case study Its secondary functions should be to assist the administration of the hospital to a better understanding of the social conditions of the patient induce the patient to continue treatment relieve the patient of physical and mental nornes cooperate with the public health authorities in promoting better community relations and cooperate with schools of nursing and universities in the education of the student nurse and social worker

J FRANK DOUGHTY M D

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -THE BOLD FACE LIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS ISLE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

SURGERY OF THE HEAD AND NECK

Head

The treatment of head injuries H H HEPBURN Cana dian M Ass J 1929 XX 20

Elongation of the styloid process of the temporal bone

M D SHIE New England J Med 1928 CXCIX 960 Osteomyelitis of the frontal bone and extradural abscess with an account of two personal cases L O ZEVO and

O CAMES Semana med 1928 XXXV 915 Chronic inflammations of the parotid gland Castillón Ars med 1928 iv 374

Mixed tumors of the submaxillary gland O IVANIS SEVER and R. C. FERRARI Bol. inst de clin quir 1928

Ankylosis of the naw and micrognathia. A PROMME Bestr z klin, Chir 1928 czliv 195

Eye

The place of ophthalmology in medicine E Jackson Colorado Med 1920 XXVI 3

Traumatic ophthalmology C BERENS and R R. LOSEY Am J Surg 1929 VI 45

The relation of obstetrics and gynecology to eye con dations E Vocr Monatsschr i Geburtsh. u Gynaek

Minor ocular symptoms as the initiation of nervous lesions A J MANES Semana med 1928 xxxv 1426 Some ocular manifestations of focal sepsis A F MAC Callay 1 roc Roy Soc. Med Lond 1929 XXII 328

Ocular symptomatology in dengue Based on an analysis of 1 141 cases W D Gill Arch Ophth 1928 lvn 628 Diabetes from the standpoint of the ophthalmologist

Diabetts from the standpoint of the opinional of IS Grantie, J Indiana State M Ass 1049 xmi 2. The effect of dental pathology upon the eye and ear La Foatra. Rhode Island M J 1939 upon J Headache and eyestrain A B DYKMAN Northwest Med 1929 XXVIII 29

acone therapy in diseases of the eye C BERENS and

R. R. LOSEY Am. J Ophth 1920 mi 11 Chrone glaucoma W H WILDER Illinois M J 1929 Indectomy in glaucoma a study of the glaucomatous

process A vov GRAEFE Arch Ophth 1929 1 71 Visual acuity within the area centralis and its relation to eye movements and fixation F W WEYMOUTH and

others, Am. J Ophth 1928 x1 947 [214]
A sensitive test for the equality of accommodation J I [411] Pascat, Am J Ophth 1929 xii 29
The growth of the eye and the development of myopia
The growth of the eye and the development of myopia

a study in the changes of refraction during the school Penod A Sourasky Brit J Ophth 1928 Rii 625 High hypermetropia F (Williamson Volle Proc Roy Soc Med Lond 1929 XXII 325

A pigmented tumor of the eyelid M H WHITING Proc

Roy Soc Med Lond 1929 xx11 326 An unusual cyst of the forehead and orbit H S GRADLE Am I Ophth 1929 xu 28

Nævus of the bulbar conjunctiva F H Rongy and E M HALL Am I Ophth 1920 XII 25

Blood staining of the cornea O G MORGAN Proc Rov Soc Med Lond 1020 XXII 324

The nunciples of treatment in corneal ulceration | E | T SMITH Med J Australia 1923 1 50 The problem of keratoconus and its importance in general

medicine O WERNICKE Semana med 1028 xxxv 1410 Ins prolapse from corneal ulcer treatment by conunc tival flap R. A PETERSON Am J Ophth 1928 x1 970

[4111 A meniscotomy knife H A T FAIRBANK Lancet 1929

An injury of the lens causing alteration of refraction A H Levy Proc Roy Soc Med Lond 1929 XXII 327 The use of lens protein tests before cataract operations R. H COURTNEY Am J Ophth 1929 vil 20

Modern cataract surgery L Mills J Am M Ass 1028 XCI 1070 A cataract wound infected with facultative analrobic streptococcus H M LANGDON Am I Ophth 1020 mi

Epithelial tumors of the ciliary body diktyomata their differentiation from the gliomata P SATANOWSKY Semana méd 1928 xxxv 1017 Persistent connective tissue in fund: \ L Apan and

M S MAYOU I roc Roy Soc Med Lond 1929 xxu 323 Sarcoma of the choroid J N GREEAR JR Virginia M

Month 1928 lv 633 [412] Histological observations in a case of localized tuber culous chonoreturates I II VERHOEFF Arch Onhth 1929 1 63

The diagnostic and prognostic significance of retinal harmorrhage F W LAMB Ohio State M I 1028 TXIV [413]

Ostertis deformans with central senile exudative ret mitts Iritis M S Mayou Proc Roy Soc Med Lond 1929 XXII 325
Retinal disease with massive evudation report of a case

W G MENGEL J Med Soc N Jersey 1928 xxv 88

Retinal cyst. O G Morgan Proc. Roy Soc. Med Lond 1929 xx11 324 Local anasthesia in surgery of the eye ear nose and

throat, G G Svare, Virginia M Month 1929 lv 728

Progress in otolaryngology A summary of the biblio-

graphic material available in the field of otolaryngology 483

within the rubber bag. On filling the bag became fusiform and the pressure measured indicated the pres are within the resophagus

Visceral pain was found to be due to stretching with consequent deformity of the nerve endings in the nalls of the viscus. This accompanied a rise in the diastolic pressure or tone of the viscus. If the posture was increased so that the bag could be more readily accommodated pain sensation ceased. Dur. ing systolic contraction the pressure in the bag sometimes increased but the tension on the nerve endings fell because the diameter of the viscus de creased Pain was absent but recurred as the wave

passed and the diameter of the bag again increased This phenomenon was further established when two rubber bags were introduced into the resophagus one above the other and compressed in turn by each peristaltic wave. The waves were not the result of swallowing and were unnoticed by the patient an example of secondary peristals. In further experi ments a banum-coated bag placed in the lower esophagus was inflated with water to a pressure of 40 cm and a rubber bag was placed above it to record the passing of penstaltic waves. Pain was felt at once and was most severe during contractions. Dur. ing swallowing the pain became worse and there was a contraction wave lasting twenty seven sec onds When the rubber bag was placed below the incompressible hag pain was noticed as before but the lower bag recorded only an increase in diastolic pressure with no peristaltic waves. This was not due to compression of its tube as normal respiratory variations were noted. The author explains increased pain during peristal is by the fact that the diastolic pressure remained constantly at 40 cm except during the mildle of the wave when it was relieved for an interval by the contraction of the muscular walls

Similar findings were made in the case of the stomach Many chinical cases of gastric and duodenal ulcer were studied with special reference to the production of pain by the presence of gastric contents injected into the esophagus in which no nain was produced Visceral pain is an affair of the whole visceral wall and not an isolated part of it and peptic ulcer produces painful effects secondarily

by causing a reflex increase in tone. The author a findings and those of other investigators seem to show that a direct peristaltic action relieves visceral pain but that the pain recurs when the tension on the nerve endings becomes re-established during peristaltic relaxation MILLIAN J PICKETT M D

Emerson W C The Effect of Ether Anæsthesia and Shock on the Calcium of the Blood J Lab & Clin Med 1928 xiv 195

Emerson studied the effects of ether anasthesia asphyxia pulmonary hyperventilation and shock on the serum calcium of dogs and concludes as follows

There is an increase of 18 per cent in the serum calcium of the blood following other anasthesia.

2 There is an increase of 20 per cent in the serum calcium of the blood following asphysia 3 There is a slight decrease in the serum calcium

of the blood following anasthesia with hyper tentilation A slight amount of asphyxia during ether anaesthesia is of value as it tends to rabe the serum

calcium content of the blood and thereby sporten the coagulation time 5 Shock has no effect upon the serum calcium of IACOR W MORE ND the blood

HOSPITALS MEDICAL EDUCATION AND HISTORY How Social Service Supple

MacEachern M T ments Treatment Mod Host 1918, 1111 8).

The primary function of the social service depart ment of a hospital should be to assist the doctor in the scientific care of the patient through med.cosocial case study Its secondary functions should be to assist the administration of the ho-pital to a better understanding of the social conditions of the patient induce the patient to continue treatment relieve the patient of physical and mertal worner cooperate with the public health authorities is promoting better community relations and coopers e with schools of nursing and universities in the education of the student nurse and social worker

I FRANK DOUGHTY M D

Pharyny

The treatment of palatopharyngeal symphysis ī. Savesco and P. L. ERRECARY Semana med 1028 XXXV 913 Dysphagia due to pharyngeal paralysis W. M. Molli

sov Cuy's Hosp Rep Lond 1020 lixix 40 Agranulocytic angina J M TRACE Illinois M J, 1929

Agranulocytic angina O O Ashivorth and E A Hrves Jr South W & 1929 xci 22
Agranulocytic angina T Kleiv Med Clin N Am

1022 In 1051 Intramuscular injections of bismuth a specific treatment for Uncent's angina O C Richy Tri State Med

[415] Retropharyngeal lymphadenitis and abscess SERFREID Med J & Rec 1929 CERIX 26

A case of syphilitic gumma of the pharyny with disap pearance of the uvuls and the formation of synechia G A SCHANOVE Semana med 1928 xxxv 1444

The relationship of tonsillar infection to mental disease JA JACKSON and H V PIAE Med J & Rec 1929 COOK 31

The present status of \ ray therapy of the tonsils H Farto Med I & Rec 1929 CURIE 23 The use of radium in diseased topsils [C SCAL >

lork State J M 1929 xxix 65
Endothermic tonsillectomy J BLUMBERG J Med Soc V Jersey 1929 XXV1 26

iscomplete removal of the tonsils by electrodesiccation F J NOVAK JR and M ZELLER JR J Am M Ass 1928, 101, 2065

What is the matter with the tonsil operation F F C DEMAREST J Med Sor N Jersey 1929 xxv1 23 The que tion of tensillectomy I C SCAL Med J &

Rec 2020 CEXIX 36 The last word in surgical tonsillectomy including dia thermy or electrocoagulation S R Skillern Jr Virginia

M Mor h 1929 lv 723 Tonsillectomy in chronic arthritis A B PAVEY SMITH Lanret 1929 ccav1 170

A method for the control of hamorrhage following tonsil lectomy H R North J Med Soc N Jersey 1929 VXVI A socal complication of tonsillectomy Sir J Dinnas

GRANT Bot M J 1929 1 11 Rhinolalia aperta after tonsillectomy Laryngoscope 1928 xxxviii 778

Neck

A case of total aplasm of the thyroid S Savo Tran. 13p path Soc 1928 311 4 The lingual thyroid M Mittao Endocrinologie 1928

Some clinical a pects of hypothyroidism A H GORDO Canadian M Ass J 1929 xx 7 Cirtinism P L knaces Brit J surg 1929 xvi

An unusually large thyroid dosage its dangers case re port. L. F. LARRING New England J. Med. 1929. cc

The thyror I gland in infections the effect upon the basal metabol c rate V A HOMACK W II COLE and A G Hences Endocrinology 1928 gtt 773
Boode to hype thyroidism II M CLUTE Am J Surg 1020 VI 11

The influence of the seasons on hyperthyroidism A Herren, Deutsche Zischr f Chir 1928 ccs1 346

Gotter hased on 2 000 cases from the surgical clinic of the University of Cracon J DENGEL Polski I rzegl chir 1027 Vt 520 A comparative clinical histological chemical and biological study of the goiter material of Munich H Sparz

Deutsche irch f klin Med 1928 clvm 257 Gotter in the negro race with the report of cases L W

HARRIS Tri State Med J 1929 1 80
Ocular signs in goster f B Horlonay W F FRY and H A WENTWORTH J Am M Ass 1020 xcm 45

A contribution to the study of the basal metaboli m in gotter at puberty S M ELDH Acta med Scand 1028

1212 2º6 The relation of poster to other endoctine glands I H

HUTTON Am J Surg 1920 VI 28 Tachycardia and hyperthyroidi m Report of three cases without evident enlargement of the thyroid gland or

exophthalmos H h Montes Med Clin \ Am 1020 Two cases of hugual corter Dieversians Nowy chir

Arch 1028 XIV 285 Arterial hæmorrhage in a goiter E Harn Arch I klin Chir 1928 ch 505

Lymphadenoid goiter and its clinical significance G S WHILIAMSON and I II I FARSE Brit M I 1020 1 A The treatment of the desperate gotter patient I E

Fase Am I Surg 1020 VI 24 Pregnancy complicating simple goiter and Graves dis ea e H GARDINER HILL Lancet 1020 cctv1 120

Pros and contras in the use of jodine for the treatment of gotter G Schwyzer Minnes na Med 1020 xii 17 The use of toding in hyperthyroidism A S Jackson

im J burg 1020 11 7 The influence of ergotamins on the electrocardiogram in hyperthyroids m F Merke and W Lisver Deutsche

Ztschr f Chir 1028 ccx 230 Surgical ionization applied to cystic goiter FRECKER Med J Australia 1929 1 100

The heart in thyroid disease I Changes in the T wave of the human electrocardiogram following jodine medica tion and thyroidestomy W. W. HAMBURGER M. W. Lev. W. S. Priest and H. C. Howard. Arch. Int. Med. 1929.

xbu 35 Endemic goiter in rabbits. I Inci lence and character istics A M Chesses T 1 Clauson and B Webster Bull Johns Hopkins Hosp Balt 1928 xun 261 [415] Endemic goiter in rabbits II Heat production in gostrous and non gostrous animals B Webster T A

Hosp Balt 1928 vhu 278 Epdemic goiter in rabbits III The effect of the administration of iodine B WERSTER and A M CHESNEY

Bull Johns Hopkins Ho p Balt 1928 this 291 [415] An interpretation of the clinical histories of more than 1 000 toxic goiter patients B T king 1m J Surg 1929 VI 38

Thyroto icosis from the internist's standpoint [I. Miller Am J M Sc 1920 clrvii 98
Basedows disease in a child C I ried Zentralbl f

Chir 1928 lv 2196

The surgical pathology of Graves disease with special reference to its progressic significance W M Surrovy and E R Ary Ohio State W J 1939 277 23

Thyroidectomy in the mentally disturbed with exo-phthalmi gotter J L DECOLECT Am J Surg 1929 vi The prevention of recurrent go ter J I Lise Surg

Clin \ Am 1928 viii 1375 [416] Injuries to the parathyroids and sub equent manage ment C I LEMPER Am J Surg 1920 VI 42

The functional examination of hearing deal mut in and the education of the deaf R SONNENSCHEIN Arch, Otolaryngol 1929 ix 61 Protrusion of the meminges in the external auditory meatus simulating an aural polypus H N BARNETT Proc Roy Soc Med. Lond 1020 XXII 377

Papuloma of the external auditory meatus S Hast INCS Proc Roy Soc Med Lond 1929 KKII 378

Hearing tests T A CLARKE Proc. Roy Soc. M d Louis 1020 xx11 351 The estunation of hearing capacity S Hastings Proc

Roy Soc Med Lond 1929 xxu 355 A classification of deafness based on the effect of deafness

on efficiency in life J h Love Proc. Roy Soc Med Lond 1020 XXII 358 Deafness with an unusual bone condition of the inner ear

H N BARNETT and H G HODGSON I roc Roy Soc Med

Lond 1929 XXII 377
The pathology of otosclerosis O MAYER J Largueol & Otol. 1928 xlu 843 Ear infections in children | E McAskill \ York

State 7 M 1020 xxix q How do you treat middle ear catarth? G W MAC

KENZIE I Ophth Otol & Laryngol 1929 xxxiii 1 Otitis media due to pneumococcus mucosus I Duento

Med. Ibera 1028 xii 345 Vasomotor affections of the internal ear G PORTMANN] Laryngol & Otol 1928 xlus 860 The clinical significance of spontaneous nystagmus H

BRUNNER Arch Otolaryngol 1020 ix s Double traumatic injury of the jugular bulb G H BOYCE J Am. M Ass 1928 xcl 2064

Some unusual cases of mastoiditis with special r f erence to sinus thrombosis and the simplification of operative procedure H HAYS N York State I M 1020

Considerations upon a cas of syphilis of the mastoid FRANCHINI Semana méd 1928 IVIV 1010 Scalo tenderrees as an indication of dural involvement in mastoiditis O I Dixov Ann. Otol Rhinol & Larva

gol. 1028 xxxvii 1154 Acute suppurative mastoiditis lateral sinus infection

terminating in leptomeningitis ca e report 11 W Cox I Indiana State M Ass 1929 VIII 15 A study of the fossa subarcuata as a passageway for infection from the labyrinth to the cerebellum D L Por Ann Otol Rhinol & Laryngol 1928 xxxvii 1167

The ubarachnoid spaces in relation to otitic meningitis E L Woon Arch Otolaryngol 1929 17 40 The roentgen picture of ventricular perforation and

spontaneous pneumocephalus in a case of an otogenous temporal lobe abscess ending in cure H UFFE VORDE Zischr f Hals Nasen-u Ohrenheilk 1928 xviii 567 Temporosphenoidal abscess hernia cerebri recovery S HASTINGS Proc. Roy Soc Med Lond 1929 xxii 378

Nose and Sinuses

The evolution of the human face its significance in the fields of rhinology and stomatology H II BRIGGS Ann Otol Rhinol, & Laryngol, 1928 xxxvii 1110

The treatment of the broken nose H D Graties and T P KILNER Lancet 1929 CCXVI 147 Recent fractures of the nose W W CARTER Am ?

Surg 1929 VI 51 Cosmetic correction of long noses B Nacy Med Klin

1928 XXIV 1310 The prevention of nasal deformities following the submucous operation W W CARTER Arch. Otolaryogo 1928, viii 555 Laryngoscope 1929 xxxix 52 1414

Aml ulatory plastic operations following excis on of sam carcinoma of the nose and surrounding tis.ue H kcer ZAHN Bestr z klin Chir, 1928 czliv 50 Determination of the bleedin point of epistana G B

Mc tourre Med J & Rec. 1929 cana, b Dental caries in paramasal sinus infections G Breev Arch Otolaryngol 1028 vin 608

Tuberculosis of the nasal accessory sinuses LEDERER and G S LIVINGSTON Ann Otol Rhand & Laryngol 1023 xxxvn 1176

The effect on certain syndromes of chiasmal tumor H I Little and W I Little Laryngoscope 1015 Execut

[414] Acute accessory sinusitis and its management. T I HARRIS Ann Otol Rhinol & Laryngol 1928 xxxvi

Irrigation and suction cannula new and moduled for the frontal maxillary and sphenoidal sinuses [11 MILLER Arch Otolaryngol 1928 ix 50

A frontal sinus rasp H A Scharz Arch Otolaryngol. 1020 18 60

A gigantic frontal sinus requiring external operation report of a case H W Lynan And Otol. Rhinol. A Laryagol 1928 xxxvii 1195 Latent d sease of the maxillary sinus W Miraveres

Laryngoscope 1929 XXXIX 29 Chronic hyperplastic sinusitis (antral) report of cases. T R GITTIAS Ann Otol Rhinol & Laryn of 1918 XXXVII 1146

Chronic infection of the maxillary sinus W C WARRES Med Ass Georgia 1929 xviii 14 The diagnosis and treatment of chronic antral infection.

R. H. Skillery Ann Otol Rhinol & Laryngol 1929 XXXVII 1187 Mucous membrane cysts of the maxillary sinus I P

MATRESON South M & S 1020 XCI Q How and when the mucous membrane of the manilary sinus regenerates an experimental study in the dog C D KNOWLTON and G W McGREGOR Arch. Otolaryn of tars vill 647

The nasal sinuses with special reference to the ethnocis. T W Moore South M J 1929 Ttll 38 Roentgenological signs which indicate extension of in

fection from the ethmoid and sphenoid sinuses to the hase of the skull G F PRAILER Arch Otolaryngol 19 3, VIII 638 Optic neuritis following sphenoidal sun; itis located by

the differential exploratory test P WATSON WILLIAM Bnt M 7 1028 is 1010 Case reports from the Ross Hall a liera Che of the

Uni ersity of Pennsylvania S R. SKILLER JE Otol Rhinol & Laryngol 1928 xxxvii 1124

Mouth

The Reich Matti operation for bilateral hare by H. FRUEND Muenchen med Wchnschr 1918 hav 1267 Industrial dentistry G Mittageney California & Hee

Med 1929 XXX 21 Kadiological indings and their agnificance in forth

dental sepsis J F BRAILSTORD Bot J Radiol, 1927 4 Pyorthoga alveolaris II HUMPEREUS Bit M J

Handbook of ear nose throat and albed specialties 1. DENLER and O LARLER Tart 4 Vol IV Diseases of the air passages and mouth Infect ous diseases Plant and animal parasites Diseases associated with the varied

Trop cal diseases Hamorrhams 1925 dermatoses Bering Sprag er

Valenant neuroblastoma of the sympathetic E BUEL BUNG Arch f path Anat 1928 cclavum 300 [423]
Surgery of the sympathetic in the extremities Braele res Zentralbl. f Chir 1028 lv 811 [423] Intestigations by capillary microscopy in periarterial sympathectomy W Righer Arch f kim Chir 1928 cl [423]

Miscellaneous

Neurology and the ear G C ANDERSON New Orleans V & S J 1929 bexx 504

A malignant tumor of the thymus with peculiar meta stast into the central nervous system a contribution on the question of tumor metastasis by the cerebrospinal fluid route E NEDELMANN Z Neur 1928 cxv cto [423] A malignant thymoma with a peculiar metastasis into the central nervous system in a child one and one half years old Also a contribution on the clinical picture and patho logical anatomy F Danisch and E Nedelmann Arch

f path Agat 1028 cclxviii 402 The comparative anatomy of epicritic and protopathic sensation II H WOOLLARD Med J Australia 1928 ii

SURGERY OF THE CHEST

Chest Wall and Record

Chondroma of the chest wall-resection B I LET

lan Surg 1929 Ixxxiv 133 An anilary breast adherent to the skin H SLOBOZIANU and E Conen Spitalul 1928 xlvm 267 The etiology of gynecomastia M Jaros Casop l'k

ttsk 1928 D 1238

The finer technique of operations for pendulous breast GLAESMER and R AMERSBACH Muenchen med E GLASSIER and R AMERSBACH Wchnschr 1928 lxxv, 1547

A new breast plastic H BIESENBERGER Zentralbl f Char 1028 ly 2382

The treatment of early breast cancer G KEYNES Lancet 1020 ccxvt 156

Nation surgery for cancer of the breast STEINTHAL Druts he med Wchnschr 1027 hi 1779 ecrosis following radiotherapy in breast carcinoma H

ACCHIACLOSS Ann Surg 1929 IXXXIX 151
Adenocarcinoma of the right breast in 1913 and 1927 The postoperative treatment L KREYBERG Med Rev 1013 tlv 154

Postoperative A ray treatment of cancer of the breast Il Iseria Schweiz med Wchnschr 1928 Ivin 603 [425]

Trachea Lungs and Pleura

Tracheotomy technique and after-care of the patient W II PRIOLEAU Surg Gynec & Obst 1928 Rivil 848 14251

The d agnosis and treatment of foreign bodies in the traches without the roenigen ray and bronchoscopy H

As interesting case of foreign body in the bronchus E BEDSUL. Med J & Rec. 1939 CXXX 36
The accessory lobe of the azygos ven. J H Marijer 1425! and R Coore But J Radiol 1929 1 481

The d fensive and metabolic apparatus of the lungs B W TRIED Arch Surg 1929 XVIII 599 Lip odel in its relation to chest diagno is B H McHoLS

kad ology 1929 XII 1 The relationship of the heart and lungs in disease 1 D

MRITE Arch Surg 1929 XVIII 339 Two cases of obstructive pulmonary embolism success

fully operated upon C CRAFOORD Acta chirurg Scand [426] Experiences in three cases in which the Trendlenburg operation was done for pulmonary embolism 1 178 W Acta chirurg Scand 1928 lviv 110 [426] I clinical note upon the endobronchial treatment of

athma, G VICENTE Med Ibera 1928 xu 373 Congenital cystic disease of the lung L ELOESSER Chn \ Am 1928 vin 1361 14261 Bronchoscopy in acute lung abscess L F Johnson New England J Med 1929 cc 64

Abscess of the lung following fracture of the ribs C GEORG TR Arch Surg 1929 XVIII 526

A practical substitute for parafin in the operation for Jung abscess W MINTZ Zentralbl f Chir 1928 lv 2194 Chronic bronchiectasis in childhood E S Thorpe

Pennsylvania M J 1928 xxtii 168 4271 Bronchoscopic treatment of bronchiectasis in children W F MOORE Pennsylvania M J 1928 xxxii 170 [427] Recurring hamorrhage in chronic suppurative conditions of the lung treatment by ligation of the pulmonary artery report of two cases H L BEYE Arch Surg

1020 XVIII 520

The treatment of chronic bronchopulmonary suppura tive lesions limited to one lobe of the lung W WHITTE MORE New England I Med 1928 excix 1213 [427]

Phrenicotomy in the treatment of supradiaphragmatic suppurating cavities O Ivanissevich I Print and R C FERRARI Bol inst de clin quir 1928 iv 232

The surgical treatment of pulmonary tuberculosis B

HUDSON Brit M J 1929 1 15
The relations between tuberculous pleuropulmonary sclerosis pneumothorax displacements of the trachea and mediastinum and bronchiectasia C Mainini and M V Pozzo Semana méd 1928 xxxv 1416

Primary carcinoma of the lung D A Cooper Med Chn N Am 1929 xii 1109 Advances in lung surgery F SAVERBRUCH Deutsche

Ztschr f Chir 1928 ccu 227 The early diagnosis of empyema in lobar pneumonia T

McCae Med Clin N Am 1929 xii 883 The treatment of empyema F G Tromson Brit. M

1020 1 80 Pneumococcic empyema treated by intrapleural in ections J FDEIKEN Med J & Rec 1929 CXXIX, 101

Heart and Pericardium

The effect of roentgen rays on the heart II The mi croscopic changes in the heart muscle of rats and of rabbits following a series of exposures A S WARTEIN and E A. Arch Int Med 1929 xlm 15

Rupture of the heart from a pyzemic abscess in the myocardium G H STEVENSON and A J MARSHALL Glasgow

M J 1928 cx 337
The removal of a bullet from the pericardium under a 4271 local angesthetic report of a case T'C DAVISON Arch

burg 1929 XVIII 4 5 Traumatic hamopericardium D Zacharia Med I Australia 1928 ii 761

Hamorrhage into the pericardium A T EDWARDS Med J Australia 1928 n ,61

septic 2020 txv1 51

Right hemiplegia aphasia and aphonia following a gun shot wound of the neck report of a case J L GARVEY Arch Otolaryngol 1929 18 57 Hydrocele of the neck M S RAMACHANDRA RAO Anti

The diagnosis and treatment of tuberculous laryngitis B S SHARP Rhode Island M J 1929 xil 5 Tuberculoss of the larynx with cyst E A PETERS Proc Roy Soc Med Lond 1929 XXII 530

Cicatricial stenosis of the largest a proposed method of treatment with report of three cases M F ADRICAGE Arch. Otolaryngol 1928 viii 686 Radium treatment of intrinsic carcinoms of the laryer

N S FINZI and D HARMER Brit M J 1928 u 935 [416] A two-stage laryngectomy G B New Surg Greet & Obst 1928 zlvn 826 Diabetes from the standpoint of the otolaryngologist J C BECK J Indiana State M Ass 1020 Epr 1

SURGERY OF THE NERVOUS SYSTEM

Brain and Its Coverings Cranial Nerves

Studies in neurology II On cerebellat function. S INGVAR Bull Johns Hopkins Hosp Balt 1928 vini

A normal ventriculogram H M Gary Brit M I 1929 1 15

Craniocerebralinjuries I M GAGE Am. I Surg 1929 V2 64 Death from blows during boxing K. Woter Deutsche Ztschr f d ges genehtl. Med 1028 xii 102

Late traumatic apoplexy H C NAFFEIGER and O W JONES California & West Med 1928 rux 161 (418) Traumati rupture of the vertebral artery at the base of the brain A. Wolfr Deutsche Ztschr f d ges genehtl

Med 1928 x1 464 An experimental and clinical study of epilepsy Schoe Bauer Beitr z Llin Chir 1928 Cally 183

Superficial sub-section of the motor cortex (Trendelen burg) in the treatment of epilepsy M kirschver Schriften d Koenigsberger Gelehrten Ges naturwiss M 1027 17 61

Cisternal puncture L ESELCHEN Ergebn d inn Med 1018 XXXIV 113 Suboccipital puncture \ \ SCHMIEDEN and H \ \ FISCHER I f Psychol a Neurol 1928 xxevii 303

The transbuccal approach to the encephalon A J Mc LEAN Ann Surg 1928 IXXVIII 98, [418] Siderosis of the globus pullidus its relation to bilateral necrosis J Path & Bacteriol 1929 XXXII 135

The treatment of abscess of the brain C C COLEMAN Arch Surg. 1929 XvIII 100 Cerebral tumors H S SOUTTAR But M I 1020 1 53

Tumors of the temporal lobe I Pousers Folia neuropathol Estoniana 028 vii 113 Venous abnormalities and angiomata of the brain W. E.

DANDY Arch Surg 1028 TVII 715 An unusual location of a solitary tuberculoma GLEICH and A M SALA N York State J M 1020 XXIX

Tumor of the brain pongioblastoma multiforme G Belland O Lattiaw Med J Australia 19 8 11 75 Multiform spongioblastoms of the left occipital lobe MI BALADO and C L BERVASCOAL Bol inst de lin quir

1928 Iv 75
A rare brain tumor Marrens Zentrall I f Chir 1928 lv 1624 The radical operation for brain tumor V Novak Cason 11 crsk 1928 pp 1129 1169

Electrosurgery as an aid to the removal of int acramat tumors H Cusming and W R Bovie Surg Gynec & Obst 1028 xlvn 751 Meningitis serosa circumscripta 1 Gibson and A Y

MATRERS Canadian M Ass J 1929 XX 23 Syphilitis meningitis in a nursing child J Symon Rev med de Lhile 1925 Ivi 1076

Studies in the treatment of purulent meningits. I. De velopment and method. F. STARLINGER. Arch f. kin. Chir 1928, zl: 329

Osteoplastic endothelioma of the dura E. CORDES Mitt a d Grenzgeb d Med u Chir 1928 xli 32 [119] An error of diagnosis in a case of endothelioma of the dura K. Flick Zentralbl f Chir 1028 lv 2321

The surgical treatment of intractable cases of blephstospasm. E S GURDHAN and H WILLIAMS J Am. M. 11201 Ass 1028 xet ore On the pathogenesis of the Argyll Robertson phenomenon 5 INGVAR Bull Johns Hopkins Hosp Balt. 1923

xlu 36 e Some considerations on peripheral and central hera anopsias H L. Plaza and C E Lugue Rev med de Chile 1928 lvt 949

Fascial plastics for facial nerve paralysis. L Voszkowicz Wien khn Wchnschr 1928 ab 1151

Spinal Cord and Its Coverings

Two cases of spinal injury in the upper lumbar region showing marked improvement without surgical inter ference A G BICCAM J Roy Army Med Corps Lo d 1929 lu 47

Lipsodol and the cerebrospinal fluid FRANZ and SCHOEN BAUER Deutsche Zischr f Liber 1928 cum 410 Tumors of the spinal cord in childrood. E Smorry Am J D's Child 1928 XXIV1 1184

Neuroghal tumor of the spinal cord W G Bastano Path & Bacteriol 1919 xxxx 163 Dorsal meningioma L Sierga and H L. Plaza Rev méd de Chile 1928 lvi 1935

Peripheral Nerves

The regeneration of the peripheral nerve endings S TERASHIMAN and O I IMURA. Te Japan path Soc 1914

EVI 20 Nerve abs ess in leprosy J Lowe Indian M Gar 1929 Xhv 24

The operative tres ment of traumatic ulnar neurits at the e bow H PLAT Surg Cynec. & Ob t 19 8, zivil. Occupational pressure neuritis invol ing the deep paint branch of the ulnar nerve W Harris Bet W I 1900

1 08

Sympathetic Nerves

The frequency of the Claude Bernard Home syndrom H W SCARLETT Am J Ophth 1928 21 961 A case of hemi atrophy of sympathetic ongn. A ympa h tic camisection in spastic paralysi IL L vos LACKUM. J Am. M Ass 1929 ICH, 139

Degnostic difficulties and errors in a case of gustronetisianl hemorrhage J Petermann Deutsche med Wchachr 1928 by 1507 Gastin hemorrhage J II Gibbon Pennsylvania M J 199 z 121 241

Gastric hamorrhage from the internist's point of view T G Miller Pennsylvania M J 1929 xxxii 237
The hamatology of gastric hamorrhage C E Lavin

Pronsylvania M J 1929 xxxii 241
A diverticulum as a secondary change T Bársony

Orosibetil 1928 km 1018
Submucous cysts of the pylorus and duodenum M
Porovici Lura Spitalul 1928 xlvin 315

Endoscopic pictures of gastric ulcer R Korbscii Muenchen med Wichnschr 1928 lxv 1676 lxws on the ethology and spread of gastric ulcer A

comparative nosological study H KUEMMEL JR Klin Withinster 1928 vii 1808 Fatal hamorrhage from a gastric ulcer which could carcely be seen at autopsy H NAUMANN Med Klin

1978 XIV 935 (432)
Gastriculer and the Bayliss-Starling law V MANDLER
Atta chining Search 1998 Juny 216

Atta chrurg Scand 1928 kriv 346 [432] Anon-carcinomatous tumor of the stomach case report W Schosserer Wien klin Wchnschr 1928 xli 1188

Hyperbiliruningmis in peptic ulcer M Sturrevant and R.P. Wattace Arch Int Med 1929 aliu, 129
Conservations on peptic ulcer VI Preliminary report of themal experiments and benefits of the period of t

thusal experiments with gastroduodenal analysis C B
Morron Am J M 5c 1929 clixvii 6,
Multiple consecutive perforated gastrojejunal ulcers

P I Alton and S T Lowry Med J and Rec 1928
ctron 584
Affaltes in the treatment of peptic ulcer L Block and

A.M Serry J Am M Ass 1929 xcn 134
Perforated gastroduodenal ulcers R. Colp N York
State J M 1929 xtn 13

The nature prognosis and treatment of pentonitis following perforation of gastric and duodenal ulcers. W. Loring Therap d Gegenw 1927 lxvii: 404

Gastine ulcer and its surgical treatment L Adams
Oriosképzés 1928 xviii 3
Gastine ulcar and its surgical treatment L Adams

Castre uler and gastro enterostomy C Johnsen Zentralbi f Chir 1938 by 2314 Lile intussusception of the bowel into the stomach after

patro-calcrostomy I W Witte and I R Jankelson age England J Med 1928 exert 1189 [432] Gastin resection for perforated gastroduodenal ulcer G lleowade Zentralb1 f Chir 1928 ly 2449

Results of operative treatment of chronic gastric and duodenal ulcer Results following gastro-enterostomy and Essinc resection particularly the market of the chronic

Eastine resection particularly the method of Re chel Part 2 Gastineresection E Schwarz Arch f kin Chir 1928 Amethod of resecting callous ulcers on the lesser curva

thre of the Momanth (drawing the tis uses out without the state of the Momanth (drawing the tis uses out without 1978 in 2001.

Mal grandy of gastric ulcer L G Cole Radiology

Gastne carcinoma after gastro-enterostomy for ulcer G Wolfson N Deutsche med Wehnschr 1928 hv 1970

Resection en blue of the stomach and transverse colon to sastine carcinoma S Davidovic Arb celok Lekarst Publish in gastine surgery Sir B Monthan Brit.

MI Just in restinc surgery Sig B Side and I He Partial gastrectomy by the B liroth No 1 method in Boltano Ann Surg 1929 ixxxix 138

Our experiences with total resection of the carcinomatous stomach J Mirvor Arch f kin Chir 1928 caliv 206
Complete gastrectomy for carcinoma of the stomach E R LLINT Brit M J 1928 u 979 [435]

Gastroscopy on the surgically treated stomach E HER TEL and H U KALLIUS Arch f klin Chir 1928 ch 578

The effects of nicotine injections into the coeliac ganglion

on paralysis of the bowel I POSEVSTEIV and H KOLHLER
Deutsche Ztschr f Chir 1928 ccx 315
Two cases of benum intestinal obstruction L. B.

Two cases of benign intestinal obstruction
SHERRY Surg Clin N Am 1928 viii 1511
The diagnosis of acute intestinal obstruction
II II

DONALDSON Pennsylvania M J 1929 XXXII 244

The treatment of acute intestinal obstruction E L

ELIASON Pennsylvania M I 1920 XXXII 240

The mechanism of death in acute intestinal obstruction
TK KRUSE Pennsylvania M J 1929 xxxii 246
Uræmia simulating acute intestinal obstruction L

Cole Lancet 1920 cctv1 128

The cause of death in high obstruction H S F Cooper

Arch Surg 1928 xvii 918

Tuberculous enterocoluts F Suttriles M Weiss
MAN and F Fremmel J Am M Ass 1928 xci 1932

The effect of solutions of pituitary and various drugs on

the movements of the small intestine during simple me chanical obstruction C A McIntosii and J C Owines Arch Surg 1928 xvu 996

Intussusception in childhood E Burghard Ergebn d inn Med 1928 xxxiv 220 Non-operative treatment of intussusception G M

RETAN Y York State J M 1928 xxvui 1408 [435]
Three cases of surgical complications from mucous
diverticula of the small bowel T Erres Zentralbl f
Chir 1928 by 2503

Sarcoma of the small intestine P J More and G F WALKER Brit M J 1928 H 1170 [436] Carcinoma and other I stops of the small intestine H

W SOPER J Am M Ass 1929 xcn 286
Experimental studies on the nature of the bactericidal bodies in the duodenal pince. W LORWENBERG Ztschr

f d ges exper Med 1928 ku 184

The hi togenesis of the sphincter of Oddi k Mart
YAMA Trans pap path Soc 1928 xvi 14

The permeability of the bowelfor substances in solution.

An experimental and critical study of a new hypothesis of ileus I Schenze Beite 2 kin Chir 1028 cxhii 728

Chronic duodenal ileus a chinical entity F II Kilcore Texas State J M 1020 xiv 608

Roentgen diagnosis in chronic duodenal ileus R k.
McHenry Texas State J M 1929 xxiv 612

The surgical treatment of chronic duodenal ileus E II

LANCASTER Texas State J M 1929 xxiv 615

Duodenal diverticula with ulcer M Thorek. Illinois

Duodenal diverticula with ulcer M Thorex. Illinois M J 1939 by 64 Ruptured duodenal ulcer with symptoms simulating

ruptured tubal pregnancy R B Mcknicht South M & S 1929 xci 21

The operative treatment of jejunal ulcers G MATOLAY

The operative treatment of jejunal ulcers. G. MATOLAY Orvosképzés 1928 xviii Sonderheft. Polypoid adenocarcinoma of the jejunum with acute

intussusception N W Green Ann Surg 1928 lexxyin
1112 [436
Leionyoma of the jejunum with intussusception V
Green Ann Surg 1928 lexxyiii 1113 [436

GREEN Ann Surg 1928 kreavan 1113
Leiomyoma of the ileum A Daniels Arch I kim
Chir 1928 ch 442

Two cases of persistent omphalomesentene duet S L CALDBICK Surg Clin N Am 1928 viii 134t [436

Suppurative pencarditis from the surgical viewpoint F G ALEXANDER. Ann Surg 1929 IXXXVIII 801 [428] Chancelly primary tuberculous pencarditis J 1

CLARKE JR Am J M Sc 1929 claven 115

Surgery of the pencardium and heart A L Look WOOD Arch Surg 1929 TVIII 417

Esophagus and Mediastinum

Convenied stenosis of the resonbagus C C BEATTY Bnt. J Child Dis 1928 xxv 237 1428 Cophageal obstructions 1 M Drenvan and I C VAL DEZ Illinois M J 1929 lv 48 Deep pul ion diverticula of the esophagus M K Suith Ann Surg 1928 levevin 1922

Carcinoma of the resophagus J E. Lise, Northwest Med rozo trvul 25 Med astinitis due to perforation of the genelary. operation r covery Send and Office of Registers Bol So de med e cirug de S Paulo 1928 ti 204

Miscellaneous

Foreign bodies in the food and air passages M Forey J Med Ass Georgia, 1929 xviii 9 Chest pains C M Guiovand F S Mean Med Clin N Am 1928 to 623 The value of synchronization in the accurate diagnosis of chest diseases T M McPhedray and C \ West Radiology 1928 xt 458

SURGERY OF THE ABDOMEN

Abdominal Wall and Peritoneum

Muscle fascia suture with preserved fascia and tendon M S ROSENBLATT and M MEYERS Surg Gynec, & Obst 1928 xlvst 836 Intercostal neuralma of the abdominal wall I B Cap

NETT Med I & Rec 1020 CTAIN 64 Inflammatory diseases and hematomata of the anterior abdominal wall M WEIGE Acts chirurg Scand 1928

IXIII SAY Herma L FRANK. Internat J Med & Surg 1020 zlu rr

An open ductus omphalo-entericus and umbilical herma A Mosr Beitr g klin Chir 1928 cyliv 236

Strangulated obturator herma R W Bolling Ann Surg 1020 laxia 138 Strangulated femoral herma H BAILEY But M 1

1028 11, 1011 The reduction of the mass in strangulated hernix O F

Mazzivi Semana mêd 928 xxxv 877 Fatty tumors of the inguinal canal and scrotum resembling recurrent hernia I M Hay South M 1 1928 xxi

1003 Pentomias of various origins Goebel. Zentralbi f Chir 1928 lv 2522

The determination of the vitality of leucocytes in peri toneal exudate W SCHAER Deutsche Zischr f Chir [430] 1928 CCX 2 O

Laparotomy for tuberculous perstonitis ZAHRADVICKY Rozhledy v chir a gynaek 1028 vii 07 Endothehoma of the perstoneum & S DUDLEY Surg 1918 LEXXVIII 1110

Torsion of the great omentum M P SLSMAN Med I Australia 1928 11 756

Omentutes hypertropinca a new chinical entity C EMERSON Nebraska State M J 1929 xiv 29 Inflammatory tumors of the omentum J KROTOSKI Polski Przegl chir 1929 vii 240

Torsion of the mesentery P Diviery Ann Surg 1929 LXXIX, 129 A chylous mesentene cyst G I Wilson Bit M J

1929 1 103 Massive retroperatoneal homorrha es O Loures

Deutsche med Wchnschr 1928 hv 1402

Gastro Intestinal Tract

Consideration of some of the literature and personal ex periences in the treatment of gastro-enteroptos s E S MEYERS Med J Australia 1929 1 103

Acute dilatation of the gastro-intestinal tract SCHOEMAKER Zentralbl. f Chir 1929 ly 2350 Gastroscopy A. HUEBYER 1928 Jena Fischer Water pyloroscopy a new type of gastroscopy V STEENBERG Deutsche me I Wchnschr 1928 liv 1382.

Acute gastric dilatation associated with pulmonary tuberculosis W Storge But. M J 1929 1, 67
Basic principles in the treatment of pasm of the card a

and other sphincters W RIEDER Alin Wchasche 1925, VI 1505 Intraperitoneal anterocolic lateral responsagoie unostomy

as treatment for benign strictures of the cardia E Hesse. Zentralbi. I Chr 1928 lv 2179 Resection of the cardia of the stomach W S LEWIT Zentralbl. f Chir 1028 ly 2110

Pylone spasm E S Moornead Canadian M 455 J 1029 XX 1 Indications for operative treatment of pylorospasm W

Agov Zentralbl. f Chir 1028 lv 2264 Pylone obstruction in the negro H L Bockes Med.

Cha N Am 1939 xu 1061 Notes on peptic digestion F A Lyorr Guy s Hap Rep Lond 1929 Ivux 86

The pepsin content of gastric secretions and pathological findings in the stomach P Rostock, Beitr z kla Chr 1938 cehn 770
A simplified method of gasting analysis G Chever
Am J M Sc 1929 cleaves 110

Consecutive tests by the fractional method of gastra analysis I E M CRACKEY Edinburgh M J 1928 xxx

Histamin in the study of the gastric secretion. L Srr RONI and A C Muscro Semana med 1928 xxxv 859

The effect of smaller doses of histamin in stimulating human gastne secretion L M Gosperz and M Coner Am J M Sc 1929 elevin 59 A resume of the subject of achylia gastner associated

with lues C A UNDINE Am. J Syphilis 1929 18

It8 Disturba ces of gastric function due to syphilis W. F. CHENEY Am J Syph lis 1929 xm 113
Syphilis of the stomach with special reference to its

inculence H A SPAGER and K A MEYER Surg Gynec. & Obst 1929 xlvm 23 Gastric ero ion from caustic soda A. Por sai D

GALDAU Rev stunt med 1928 XVII 717 Phlegmonous gastrius II PAUGGER, Deutsche Zischt f Chir 1928 ccr 358

Connective tissue inflammation in the atomach. S. LUANICZEN On osképzés 1928 avus Sond rheit.

A chemical and pathological study of the effects of copper on the byer F B FLINN and W C VON GLAHN J Exper Med 1929 xlax 5 laundice With histories of nine typical cases H D

JUNP Med Clin N Am 1929 xii 987
Bile acids in jaundice I KATAYAMA Arch Int Med
1928 xib 916 [440

Experimentally produced circhosis of the liver M Goro Arch f japan Chir 1928 v 106 Solitary abscess of the liver H I BARTLE and E L

ELISON Med Clin N Am 1929 xii 1073
Some anatomical relations for operations on the liver
and bile ducts F WALCKER Arch f klin Chir 1928

Cholecystography T G HARDMAN Irish J M Sc 1929 6 5 27

Chokrystography T H Sharp Texas State J M 1930 xuv 644 Chokrystography in the diagnosis of surgical diseases

of the bile passages ESPIN GARCIA I rog de la clin Madrid 1928 xvi 6 3 Evaluation of cholecystography J T Case J Am M Au 1929 xcu 291

Less and abuses of cholecystography E A GRAHAM South M J 1939 xxu 10

Cholecystography and gastric anacidity D Davis and

D D TALLEY JR J Am M Ass 1929 xcii 110
Supernumerary gall bladder W L WOLFSON Am J
Surg 1970 vi 88

Gall bladder disease J B DEAVER New England J Med 1919 oc 159 The value and processes between the control of the same and processes the control of the control of the same and processes the control of the con

The stranderry gall bladder J G Kopp Arch f kin

Chr 1928 ch 411
Dyspepsa due to gall bladder disease G 1 Down to Jan, M As 1949 km 7
Phun tholehthasis H Conex Med J & Rec. 1929

Cole this is with occult blood L Wohlgewith with I kin Chr, 1918 ch 438 Choleithasis with occult blood Esav Arch f kin

Chr 1938 ch 440
Intestinal lambhasis with symptoms of cholehthiasis
E Schitz Deutsche med Wichnschr 1928 liv 1337
Typhot Trubbut 1938

Typhon I fever gall stones A M Dickinson Am J Surg 1929 vi 101 Advances in the surgical treatment of gall stone di ease

B TO RESIDENCE IN THE STREET OF THE STREET O

Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bile ducts after an opaque meal J F
Vinalization of bi

The surgical treatment of chronic cholangestis by chole dechoduodenostomy II Toole Deutsche Zischr f Chir 1938 CC 415

we methods of anastomosis of the common bile duct an experimental study G L MCWHORTER Arch Surg Paperson (1919)

Patertance function tests with special reference to the quantitative determination of facal anyla e J A WOLFER and L W Christian Arch Surg 1928 xus 1890 [440] Hyperglycamia and glycosium following pancreatic many due to cholecystitis I Bernelsen Beitr z klin Chr. 1938 culv 183

Acute pancreatitis P W WILLIS North vest Med 1929 xvviii 20 Acute pancreatitis as a disease entity and as a complication M Trawinski Polski Prizegl chir 1927 vi 587

Acute pancreatic necrosis and pregnancy II Maer

The urine diastase in acute pancreatic necrosis P
ROSTOCK Bettr z klin Chir 1928 cxlin 330
Hyperglyczemia in acute pancreatic necrosis R Geivitz
Zentralbi f Chir 1928 p 2060
[440]

Pseudocyst of the pancreas H A Warnock Brit M J 1929 1 104 Hæmochromatosis with carcinoma of the pancreas G

Hæmochromatosis with carcinoma of the pancreas G
R Crirchtow Med J & Rec 1929 cxxx 67
Traumatic rupture of the spleen J D Dirity Lancet

Traumatic rupture of the spicen J D Differy Lancet 1929 ccxvi 72 Contributions on the clinical physiolo y of the spicen

Contributions on the clinical physiology of the spicen experimental studies of the variations in volume and the contractility of the spleen its circulation and the closure of the splenic artery C. Henschen and H. Rei sincer Deutsche Zischr f. Chir. 1928. CCT. [441]

The function of the spleen in disease and health R
STERECK Zentralbl f Chir 1928 by 2324
Surgical diseases of the spleen and harmatonoustic organs

Surgical diseases of the spleen and hamatopoietic organs and their treatment T Naegeli Zentralbl f Chir 1928 lv 2333 Bantis disease—splenectomy—recovery H Lowey

Splenectomy for so called Gauchers disease L W
Daytoson, Arch f khn Chir 1928 cl 537

Medicolegal aspects of splenectomy C HENSCHEN Rev Suisse acc Trav 1928 xxii 129

Miscellaneous

The function of the diaphragm W S Lemon Arch Surg 1928 xvii 830 [441] The relation of the hiatus esophagus of the diaphragm to the stomach an important function of the pillars of the diaphragm M IOANNIDES Arch Int Med 1920

Relaxation of the diaphragm following artificial dia phragmatic paralysis O UEBELHOER Deutsche Ztschr f Chir 1928 cctl 266

xhu 61

Hernix and injuries of the diaphragm F \ELGEBALER Beitr z klin Chir 1928 cxliv 213

The prevention and early diagnosis of the acute abdomen
Z COPE Brit M J 1929 1 6
Regulation of the urine reaction in gastric and gall blad

der disease J Cisler Casop Ilk česk 1928 1093 Abdominal aneurism causing thrombos s of the infenor vena cava K I Fooas Brit, M J 1929 1 97

Intra abdominal inflammation in relation to diabetic acidosis with leucocytosis report of four cases J H

SMITH J Am M Ass 1920 ren 308

Trichomonas vagnalis Donné preliminary report on an experimental and clinical study C. H. Davis and C.

Colwell J Am M Ass 1920 Fin 306
The value of the white and differential count in abdom in all surgery H P Miller Illinois M J 1929 by 50 Splanchine anasthesia considerations upon 147 cases

Splanchnic anasthesia considerations upon 147 cases QUEMADA BLANCO I rog de la clin Madri 1928 xvi 551 Two cases of visceral fistula treated without secondary correction S L CALDRICK Sure Clin \ Am 1928 viii

operation S L Cambrick Surg Clin \ Am 1928 vii 1337
The question of drainage in abdominal surgery C 1

BOMERELD J Med Cincinnati 1920 it 533
Drainage following synecological laparotomics
FRICKEST ORIOSI hetil 1928 lexii 1127

Coprostasis and cascarine Med Ibera, 1928 zu 3 8 Roent, en anatomical studies of the colon in patients with pulmonary tuberculosis H L Sampsoy and B HAL rorr Am J Roentgenol. 1929 xxi 37 Colonic lavage V M H RENDALL. Lancet, 1929 coxvi

The spastic colon from a surgical standpoint W. B RESS Teras State J M 1919 xuv 606 Chronic spasmodic affections of the colon and the dis eases which they simulate J A RYLE Lancet 1928 CCEV 1115 4361

Acute isolated phlegmon of the colon FENENER. Arch. klin Chir 1928 ch 430

Ulcerative colitis P H T THORLARSON Canadian M Ass I 1928 xix 656 Specific serum treatment in chronic ulcerative colitis

A BARGEN Arch Int Med 1929 that 50 Polyps of the colon and their relation to carcinoma of the colon. H. Westuces Therap d Gegenw 1928 last 383 Evaluation of the inner short circuiting operations on

the colon W Toewvis Deutsche Ztschr f Chir 1928 Primary caremoma of Bauhin's valve L Apilu Orvo-

sképzés 1928 xviii 29 [437] Roentgenological study of the inverted excum 11 FRIED Am J Roentgenol 1928 xv 531 [437] Volvulus of the caecum and the beginning of the colon

E kunz Arch f klin Chir 1928 cli 547 Hamorthage infarct of the cucum PENDL. Zeptralbl f

Chir., 1928 lv 2,93 The question of traumatic appendicitis T MILHELM. Zentralbl f Chir 1028 lv 1226

Appendicitis and trauma. J LEVAT Oryo 1 hetil. 1928 lesu 1155 Appendi itis due to snail like torsion E TROIAN

Orvosi hetil 1028 lxxii 1026 Unnary symptoms in appendicutes in a child J L MEAGRER Med J Australia 1929 i 77

The diagnosis of appendicitis in childhood E MONNIER Schweiz med Wehnschr 1928 lvin 697 Acute appendicitis with peritoritis in a young child P

DINEEN Ann Surg 1929 lxxxix 128 The so-called chronic appendix J G REMISSE Aederl Tijdschr v Geneesk 1928 lun 3888

Chronic appendicitis from the viewpoint of an internist H W BETTHAN Ann Int Med 1928 11 509 Appendicates simulating other diseases C FLANDIN and

C. Gilboy Lancet 1919 ccxvi 17 Spontaneous amputation of the appendix with di place ment F KERSCHNER Zentralbl f Chir 1028 1 2 82 Appendicates in measles H burckhardt Zentralbl I

1928 lv 2693 Mesenteric pyzinia following appendicitis II Horr MANN Deutsche med Wehnsch 1928 hv 1043 Appendicates and pentyphlitis as the cause of death in Basel in the period from 1901 to 1925 E JESSEN Schweiz

med Wehnschr 1928 Ivan 937 Twenty years experience in the conservative treatment of appendicitis N Nissen Usesk f Læger 1028 ac 810 The indications for operation in appendicitis

ZAAITER Aederl Tijdschr v Geneesk 1928 lxxii 3400 Complemental enterostomy in acute appendicitis MOSTER Med J and Rec. 1928 LEXVIII 580

Creal ring shadows as a typical finding after appended tomy ARTYER Zentralbl f Chir 1928 is 1640 Necrosis of the excum following appendectomy

PRIMA Zentralbl i Chur 1928 lv 2,80 Intesanal obstruction and multiple facal fistule follow ing operation for appendicitis E W PETERSON Ann Surg 1929 lxxxix 134

It hy do appendectomized patients still have complaints? I HATIEGANU and I DANICICO Cluj med 1028 it 361 The tuberculous appendix I M takey California A West Med 1929 XXX 46 Actinomycosis of the appendix P M G Sixther and

S C DYKE Lancet, 1929 ccxvi 73 Acunomycosis of the appening R Sr L Brocket Lancet, 1929 ccxv1 159 Carcinoid of the appendix S Winter Polska gaz kit

1028 VII 426 Old and new observations on the appendix appendicus. and carcinoid of the appendix S OBERNDORFER, Macnchen med Wchnschr 1918 layv 1120

A contribution on the relations between the appendix and the genitalia (a) careinoma (b) pseudomyroms R Hoever o Zentralbi f Gynaek 1928 hi, 1632 [438] Inflammatory disease of the mesocolon resembla car

cinoma of the splen c flexure II AUCHINCLOSS Ann Surg 1919 Leexix 148 Carcinoma of the transverse color and carcinoma of the

cocum J F Erdean Ann Surg 1929 lerus 154 The importance of early recognition and treatment of sigmoid distortures by physical methods F H 1045E. Internat J Med & Surg 1020 the 51

Diverticulties of the sigmoid as a source of bladder little tation A L Cutte J Uro! 1929 Ett 13 Proctolo y in America and abroad. M J Syrvom

Med I & Rec 1020 CXXIX 40 Rectal dramage of pelvic abscesses of appendiceal ongo A. P. Hervecz Illinois M. J. 1020 lv 41

A foreign body in the rectum A. Aumroszert and D FARIOLLI Semana med 1928 xxxv 991 On the treatment of prolapsus rects. G Lt -H. Acta

chirurg Scand 1923 kuv 58 Rectal prolapse cured by operation FINSTERER Zen traibl f Chit 1018 ly 2002 Urinary infections after excision of the rectum their

cause and prevention C Dukes Proc. Roy Soc Ved 1028 XXII 250 Experience at the Giessen Chinc in the radical treatment of rectal carcinoma H. Dierexica Arch f tha. Chir 1028 cl 601

Complications of a preternatural ands J Golakowski Polska gaz lek 1928 vu 369 The submucous injection of hamorrhoids with quaine urea hydrochloride C Howard Lancet 1929 10371, 29

The treatment of hemorrhoids by the ga vanicantery W S WHITCOMBE Brit M J 2928 11 1035 An experimental contribution to the surgery of the anal sphincter E MELEVER Be tr z khn Chir 1926

exhs 87

Liver Gall Bladder Pancreas and Spiern

A rountgenological study measurements of the heer and gall bladder with the aid of tetraiodophenolphthaen. Madinavertis Prog de la chin Madrid 1925 get 72 Bilirubin a non toxic substance O H Houselle

Lab & Chn Med 1928 xiv 217 Bile per tentis without recognizable perforation RUPPANYER Schweiz med Wchosche 928 ham 217

Experimental bile perstonitis and its treatment in the dog O H HORRALL Arch Int. Med 1979 that 114. The significance of inflammation in diseases of the ble

passages and a contribution on the question of early operation B AUGELMANY Deutsche med Webes by 1923 hv 15t1 Laver function tests and cholecystography

VACGRAN E C KOENIG and B D BOWEY Bull Buffalo

Gen Hosp Buffalo N York 1928 14, 49

A chemical and pathological study of the effects of corper on the later F B FLINS and W C VON GLAHN J Exper Med 1929 xlix 5
Jamedice With histories of nine typical cases H D

JUMP Med Clin N Am 1020 XII 087 Bile acids in saundice I KATAYAMA Arch Int Med

1918 xlu 016

Experimentally produced circhosis of the liver Goro Arch I japan Chir 1928 v 1067 Solutry abscess of the liver H J BARTLE and F I

Some anatomical relations for operations on the liver and bile ducts & WALCKER Arch f Llin Chir 1928

Cholecystography T G HARDMAN Irish J M Sc 1020 6 5 27 Cholecystography T H SHARP Texas State J M 1920 XXIV 644

Cholecystography in the diagnosis of surgical diseases of the bile passages Espin Garcia Prog de la clin Madrid 1928 xvi 673

Evaluation of cholecystography J T Case J Am M Ass 1929 XCH 201 Lies and abuses of cholecystography E A GRAHAM

South M. J 1929 XXII 10 Cholecystography and gastric anacidity D Davis and D D TALLEY Ja J Am M Ass 1929 xcn 110

Supernumerary gall bladder W L Wolfson Am J Surg 1920 11 89 Gall bladder disease I B DEAVER New England J

Med 1010 cc 159 The value and practicability of duodenal drainage in the study of gall bladder disease in an out patient clinic L H HITZROT and L S ANDREWS Med Clin N Am 1929

an 1147 The stranberry gall bladder I G Kopp Arch I khn Chir 1028 ch 411 Dyspepsia due to gall bladder disease G \ Downing

Am M Ass 1929 xcu 7 Pain in cholelithiasis H Cones Med J & Rec 1929 Cholchtbiasis with occult blood K Wohldemoth

Cholehtbiasis with occult blood Esau Arch f klin Chir 1028 ch 440

Intestinal lambliasis with symptoms of cholelithiasis E CBILL Deutsche med Wchnschr 1928 hv 1337

Typhoid fever gall stones A M Dickinson Am J Surg 1929 VI 101 Advances in the surgical treatment of gall stone disease

B O PRIBRAM Med Klin 1928 EXIV 1147 1187 The successful treatment of the typhoid carrier by cho erystectomy S A ELTANG Hosp Tid 1928 lxx1 826

Substrous cholecystectomy E L MORTIMER Am J Gurg 1929 12 83 Vi nalization of bile ducts after an opaque meal J I

SEMARLES and I J BRIGGS Guys Hosp Rep Lond The surgical treatment of chronic cholangeitis by chole dochodnodenostomy II Toole Deutsche Ztschr f Chir

1928 CCX 415 hew methods of anastomosis of the common bile duct an experimental study G L McWilorthe Arch Surg

Pancreatic function tests with special reference to the quantitative determination of facal amylase J \ Wolfer and L. W. CHRISTIAN Arch Surg 1928 xvii 899 Hype glycomia and glycosuria following pancreatic injury due to cholecystitis F BERNHARD Beitr z klin Chur 1928 cxliv 158

Acute pancreatitis P W WILLIS Northwest Med 1020 XXVIII 20 Acute pancreatitis as a disease entity and as a complica

tion M TRAWINSKI Polski Przeel chir 1027 vi 187 II MAER Acute pancreatic necrosis and pregnancy TENS Zentralbl f Gynack 1928 lu 2181

The urine diastase in acute pancreatic necrosis ROSTOCK Beitr z 1hn Chir 1928 cxlsi 330 Hypergly comia in acute pancreatic necrosis R Geivitz Zentralbl f Chir 1028 D 2000 Pseudocyst of the pancreas H A WARNOCK Brit M

1020 1 104 Hæmochromatosis with carcinoma of the pancreas G R CRITCHION Med 1 & kec 1020 cvxix 62

Traumatic rupture of the spleen J D DitRUL Lancet 1020 CCXV1 72 Contributions on the clinical phy-iology of the spleen experimental studies of the variations in volume and the contractility of the spleen its circulation and the closure

of the splenic artery C HENSCHEN and H REISSINGER Deutsche Zischr f Chir 1928 ccv 1 [441] The function of the pleen in disease and health

Surgical diseases of the spleen and hæmatopoietic oreans and their treatment T NAEGELI Zentralbl f Chir 1028 IV 2335

Banti s disease-splenectomy-recovery H LOWEN BURG Med I & Rec. 1020 CXXIX 30 Splenectomy for so-called Gaucher's disease L W DAVIDSORY Arch f klin Chir 1928 cl 537

Medicolegal aspects of splenectomy Rev Suisse acc Trav 1928 vvn 129

Miscellaneous

The function of the diaphragm W S Lewov Arch Surg 1028 xvii 840 [441] The relation of the heatus resorbagus of the diaphragm to the stomach an important function of the pillars of zhu 61

Relaxation of the diaphragm following artificial dia phragmatic paralysis O UEBELITOER Deutsche Ztschr f Chir 1028 ccxl 266

Hernix and injuries of the diaphraom F NEUGEBAUER Bestr z klin Chir 1928 cxliv 213

The prevention and early diagnosis of the acute abdomen Z COPE Brit M J 1929 1 6 Regulation of the urine reaction in gastine and gall blad der disease I Cisler Casop lek cesk 1928 1993

Abdominal aneurism causing thrombosis of the inferior vena cava k P FOOKS Brit M J 1929 1 97 Intra abdominal inflammation in relation to diabetic

acidosis with leucocytosis report of four cases SMITH J Am M Ass 1929 xcu 308

Trichomonas vaginalis Donné preliminary report on an experimental and clinical study C H Davis and C

COLWELL J Am M Ass 1020 xcu 306 The value of the white and differential count in abdom mal surgery H P MILLER Illinois M J 1929 lv 59 Splanchnic anasthesia considerations upon 142 cases QUEMADA BLANCO Prog de la cl n Madrid 1928 xvi

Two cases of visceral fistula treated without secondary operation S L Catobics. Surg Clin \ Am 1928 vill The question of drainage in ab lominal surgery 4421

BONIFIELD J Med Cincinnati 1920 it 533
Drainage following gynecological laparotomies
FRIGVEST Oriosi hetil 1928 lexii 1147

An interesting case of foreign body in the peritoneal cavity I I GEVERN Arch f klin Chir 1928 ch 646 Foreign bodies left in the peritoneal cavity following Laparotomy A Povomarcs Zentralbi f Chir 1928 lv

Jackson's membrane VOLLMAR Zentralb! f Chir 1928 lv 2140 The differential diagnosi of acutely developing swell go of the external inguinal ring and scrotom in children, HELLNER Deutsche med Wchnschr 1928 by 1156

GI NECOLOGY

Uterus The anatomy and physiology of the uterus and tubes based on hysterosalpingography A ELEKTOROWICZ and T ZANODZINSKI Polski przeglad radjol 1923 ii 263 Cervix uteri R. C. CHAPPIV Am J Surg 1929 vi 56

The possibilities of hysterosalpingography as a diag nostic and therapeutic measure II NATIMACHER Surg

hostic and therapeate and as Cyne & Oslo 1949 Abin 33

Cyne & Oslo 1949 Abin 33

The operative treatment of prolapse with special refer ence to the interposition method I Damu Acta obst et [443]

The Schubert operation for prolapse and fixed retro flexion of the uterus G SCHUBERT Geburtsh u Gynaek 1928 ixxx 140 Monatsschr f

Studies in the operative treatment of genital prolapse with particular consideration of the interposition opera tion P Dams Hosp Tid 1923 ixn 875

The interstitual transplant of the round ligaments for restoration of the retroverted uterus M ROGERS J Oklahoma State M Ass 1929 xxii 8
Rupture of the uterus L. A. Gerraro Lancet 1929

The treatment of uterine injuries L S SCHWARTZ

1m J Obst & Gynec 1929 xvii 66 The benign lesions of the uterine cervix and their treat

ment L P PHANEUF New England J Med 1928 CXC1X 1243 The nature and management of uterme bleeding in non pregnant women. J Novak Wien med Wchnschr

Kadium in the treatment of uterine disease W W CRAWFORD \ew Orleans M & S J 1929 lxxx1 4 4 Llectrotherapy in non gonococcal cervicitis C F O WHITE But VI J 1929 1 103

Fibroid tumors of the uterus J W JAMESON England J Med 1929 cc 22

Libromyomata G Firzgersov Insh J M Sc 1028 My theory of the pathogenesis of myomata [443] Storski Ginekol polska 1928 vii 450 Z Mov

Critique of Monsiorski's theory of the pathogenesis of myomata J Laseowski Ginekol polska, 1928 vii

Lipoma of the uterus H THALES Arch f Gynaek 1028 CXXXIV 330 Surgical complications of endometrial cysts A. E. Leg.

Med J Australia 1991 9 Fibrous degeneration of the endometrium with high grade calcification in the cavity of the uterus O Wolr RING Zentralbl f Gynaek 1928 hi 2357 Nodules of squamous ep thehal cells in hyperplastic

endometrial glands O Hivrze Zentralbi f Gynaek Macroscopic or colposcopic di gnosis of cervical leu coplakia II Hinselmann Muenchen med Wchnschr

The diagnosis of atypical epithelium of the cervix uten H. HINSELMANY Ztschr f Gebu tsh u Gynaek 10 8 XCIV 163

The diagnosis and treatment of uterine cancer H Schwitz New En land J Med 1928 czc: 1140 [444] The treatment of cancers of the uterus L Guzzáz. Rev med de Chile 1928 Ivi, 10,8

Radium therapy of carcinoma uten G G WARD Am. J Obst & Gynec, 1929 xvu r

Some observations on the radium treatment of car einoma of the cervix uten II Laurens Ned il Tijdschr

Early adenocarcinoma of utenne body completely re moved by curettage S Scines Am. J Obst & Cyarc., The management of cervical carcinoma with diathermy

coagulation radium irradiation and final hysterectomy B S TENBERCE Nederl Tijd chr Verlock, 1925 rens 47
Tumor implantation in a laparotomy wound during

operation in a case of sarcoma of the uterus J C State van Bull Buffalo Gen Ho p Buffalo V York 1978 Vi. 55 The ind cattons and advantages of the Sturmdorf ope

tion over other types of cervical amputation R. G. COLLINS Texas State J. M. 1929 Eriv 629

Adnexal and Perinterine Conditions

Menstrual symptoms in adnexal inflammation. C GELLER and T PALS Ahn Wehnschr 1928 vis The relation of local and general treatment of gonor

` ١,

4

7

١,

35

ű,

7' 20 71"

301

rhoea in the female to extension of the condition to the uterine adneva A REISNER Zischr f Geburtsh Gynaek 1928 zc u 676 Three interesting salpingo raphies S BAKEZ. rev 1028 xlv 145

The tubal sphuncter A HERMSTEIN Zentralbl I Gynack 1928 lu 1823

Heterotopic changes in the tubal mucosa R. Conpra. Zentralbl f Gynaek 1928 lit 2371 Ossification in the uterine tube O Reichett Arch f Gynack 1923 creu 066

The diagnosis and treatme t of sterility due to di eases of the fallopian tubes with a revi w of the lit ratu c and bibliography H SCHMITZ Sur Gynec & Obst. 1929 xlvm 6

The biology of the female sex gland hormones M Dones Wien kin Wehnschr 1928 zh 1311 The distribution of the ovarian hormone between boy ! follocult and the residual tissue S THAYER and E 1.

Dorsy Endocrinolom 1928 xii 69 The female sexual hormone menformon X Furth r experiences with its oral administration L. Lagrett

and S E DE JONGH Khu Webnschr 1928 vii 13 f Critical con iderations of ovarian hormo e therapy F Lavor Deutsche med Wehnschr 928 hv 1041 The vaginal sm ar method of assay of the ovarian hor

mone L C KAHNI and E A Doisy Endocrated D 1928 XII 760 The ovarian function and ispoid metabolism. I R lation between ovarian function and cholesterin in tabeli.m. CXXXIV 578

C.KALTHANN and O. MUEHLBOCK Arch f Gynaek 1928 cttriv 601 Chronic mental disease associated with ovarian dvs.

function A Dayay and L Sykes Lancet 1020 ccxvi Ovarian irradiation and subsequent children A L Kuray Fort chr a d Geb d Roentgenstrablen 1028

Exermental studies on injury to off pring from roentgen

tradiation P School Strahlentherapie 1028 xxvm The etiology of intra abdominal hamorrhage

General Zentralbl f Gynaek 1028 ht 2444 Zentrall l f Chir 1928 lv 2444 Isolated torsion of the ovary A W BAUER Zentralbl

f Gynaek 1028 hi 2,90 A case of intestinal obstruction simulating a twisted

ovarian cyst A J Fleischer Am J Obst & Gynec 1929 XVII 100 An ovarian cyst with a twi ted pedicle simulating acute appendicitis E. W. FETERSON Ann Surg 1929 IXXXIX

Melanotic pigmentation in an ovarian cyst A Liepelt

Arch I Gynaek 1928 CXXXIV 496 Dermoid and epidermoid cysts and endometrial tumors m the ovary R BRUERL Zischr f Geburtsh u Gynnek

1928 XCIV 166 Granulation cell turnor of the ovary A HOERRMANN Monatsechr i Geburtsh u Gynaek 1928 lxxx 143

A critical study of tubular adenomata of the over-O HEESCH Arch f path Anat 1928 cclvvni 280

Adenocystic fibroma of the ovary H O NELMANN Zentralil f Gynaek 1928 hi 2516

A case of bilateral angionypernephroma of the ovary Kow car Arch f path Anat 1928 cclux 79 [445] Rabdomosarcoma of the ovary J Barris and W Saw Iroc Roy Soc Med Lond 1929 xu 320

The perforation of adnexal tumors into the bladder A MATUSOVSKY Orvosi hetil 1928 lxvii 1022 The surgical treatment of purulent tumors of the adnexa

S Serenco Zentralbl f Gynaek 1928 lu 2233 The technique of vaginal operations on the uterine adacta W Weiber. Surg Gynec & Obst 1929 xlviii

External Genitalia

The biology of the leucocytes and the colloidal chemical staining of the vaginal secretion M D GUTTNER Zen tralbl. f Gynaek 1928 lu 2469

Changes in the varinal epithelium during the menstrual Ocle and pregnancy K ADLER Arch f Gynack 1928 CITES 504

Exten ive development of schaceous gland in the a goa H Hinselmann Zentralbl f Gynaek 1928 lu

Vaginal discharge due to trichomonas vaginalis GREEVHILL Am J Obst & Gynec 1928 vvi 870 Hamatocolpos hamatometra hemato alpiny due to 14451 attens of the hymen operation with presentation of the tebs followed by pregnancy B J kotwer vederly hoster verious, 1923 venu 60

In examination for virginity G STRASSMANN Deut che med Wchuschr 1928 hv 1418

Perforation of an al scessed dermoid cyst into the agin F JUNCIA EL and W SZENNIC Ginckol pol ka 1928

Gentto-unnary fistula in the female with an apprecia tion of Sums and his work D Bissell Proc Poy Med Lond 1928 xx11 179 [445]

The repair of a vesicovaginal fistula A E HERTZLLR Am I Ohst & Gynec, 1020 XVII 114 A vaginal method for resection of carcinoma of the

vacuus with removal of part of the rectum I PRIGYESI Zentralbl f Gynack 1928 ln 2452 Flenhantiasis vulvæ I von Bleben Zentralbl f

Gynack 1928 ln 1266 Kraurosis vulv.c. E. TERRUHN Arch f Gynael. 1928

Miscallanaous

1 text book of gynecology W STOECKEL 1028 Leinzig Hirzel

Modern problems in obstetrics and gynecology SELLHEIM Jahreskurse f aerztl Fortbild 1928 xiv 1 Gynecology and mechanical problems following the Ballon theory M yoy Arx Schweiz med Wchnschr

1928 Ivm 011 Internal hamorthanes of genital onem E G Donoso

Pev méd de Chile 1928 lvi 1072 Genital hamorrhages in old women W BENTHIN Deutsche med Webaschr 1028 hv 727 The effects of stryphonia injections on patholomical hiemorphages A Springer Zentralbl f Gynaek 1928

lu 2156 Prolapse and the unnary tract O BRAKEMANN Zen tralbl f Gynaek 1028 hi 2272

The examination of gynecological patients W T DANS REUTHER Med J & Rec 1929 CTUT 87

Reciprocal relations between diseases of the alimentary and female genital systems A J WALSCHEID Am] Obst & Gynec 1929 xvii 104
Pyelitis in the obstetrical and gynecological patient

B INCRAHAM Colorado Med 1020 XXVI 15 The application of adventitiectomy of the peripheral

arteries (periarterial sympathectomy) to inflammatory processes of the female sexual organs. I VOEGEL and N EBERLIN Arch f Gynaek 1928 CYRNIV 643 Studies in gonorrhota S Sterkowski Ginekol pol ka

1028 VII \$17 Hysterectomy for chronic gonorrhora Monatsschr f Geburtsh u Gynaek 1928 lxxx 10 Pelvic varicocele J A WALL Rev méd de Chile 1928

lyı q88 What is the value of rognigenographic visualization of genital fistula? H NAHMMACHER Zentralbl f Gynael

1928 ht 2586 Cancer of the female genitalia I V Meigs New Eng. land [Med 1020 cc 111

The prognosis for the most important gynecological carcinomata O STRALSS Monat chr f Geburt h u

Cynael 1928 Ixxix 445
The acute pelvis E Williams Brit M J 1928 ii 978

Acute conditions in the lower abdomen of the female W W CHIPMAN New Orleans W & S J 1929 IXXXI 463

Conservative surgery in gynecology \ Povjoan \ Ars med 1928 1 358

A reliable hamostyptic for gynecology and obstetrics I KAGAN Zentralbl f Gynaek 1928 lil 2157 The complication and diagnosis of appendicitis in

women and the ind cations for appendectomy during gynecological operations F HLASKO Cinekol pol ka 1028 VII 524

Laceration of the anterior wall of the female urethra and its repair W LFE Brit M J 1929 1 14

Immunization experiments with fetal and placental lipoids E Isittawa Zentralbi f Gynaek 1928 lit

Folichinical experiences in the use of certain organ preparations in gynecology J V ANDERSEN Hosp Tid 19 8 lxx1 073

Vigantol in gynecology Walther Med Rlin 1928 TYIV 1303 I emale steribty C MAZER and I Hoppital Med I

Later experiences in the management of sternity FIGELMANN Min Wchnschr 1928 vii 1551 The social and medical aspects of sterilization Peterson Med J & Rec 1929 cant 12

The artificial production of sterlity J Janeiro Αm Obst & Gynec 1928 avi Bra 14461 Hormonal sterilization of female animals L. Horner

PER klin Wehnschr 1929 vii 1845 The effect of gynecological operations on the sexual

life of wife and husband O HERSCHAU Zische f Sexual WISS 1928 XV 265

& Rec 1929 CX11X 90

The relationship between menstrual cycle and o ulation M. A VAN HERWERDEN V derl Ti fache v G neesk

Calcium in the blood during the mensional cycle. R. Serggies 1rch i Gynack 1928 extra 222

A particular type of amenorrhors due to theroid usuf f ciency H Torovers Ginekol polska 1928 vil 393 Studies on the effe t of di t on a rual maturity and th

further course of the o aman cycle Il NEUTELLER Ztschr f Geburtsh u Gynaek 1928 volv 28 The chmacteric appearance of hair on the face. II ROSENHAGEN Beits z path. Aust u z allg Path 1928,

Roenig n therapy for climacteric disturbances 1 L hapian Fortschi' a d Geb d Roentgenstrahlen, 1923

TTTVIII 555 Symptomatic or specific therapy in the chinacterium R SEITZ Deutsche med Wehnschr 1928 h 1255

OBSTETRICS

Pregnancy and Its Complications

Diagnostic experiences with the serological interferom etry for the diamosis of pregnancy and pathological con ditions of the female genital tract If Hour Schweiz med Wehnschr 1028 lvin 861

Skin reactions in pregnancy K Wislanski Ginekol polska 1928 vn 362

Diagnostic lateral to ntg nograms in obstetnes KOERNER Zentralbl I Gynaek 1928 lu 1336 The practical and scientific value of the lateral roept genogram in pregnancy If GUTHMANN Zentralbl f Cynasa 1928 ln 1905 (447)

Are calisthenies and cated du ing pregnancy? From the standpoint of the gyne ologist. If Sirner 1928 Stutt gart Dieck

Report on seventy six cases of e topic gestation [] L

Bunis Am J Obst & Gynec 19 9 x10 74
The decidual reaction in extra uterine pregnancy B S LINY Am. J Obst & Cynec 1929 vvii 42
Clinical studies in extopic pregnancy O K Svewsing

SEN Hop Tid 1927 lxx 324 335 359 Rudimentary hom pregnancy A Koptowers Am J Surg tota vi

litateral tubal pregnancy with copture of both tubes H H JOHNSON and J S Diasto Am J Obst & Gynec 1020 AVD 116

External migration of the ovum a contribution on the tubal pregnancy in cases of tumors of the tubes P P MUELLER Zentralbl f Gynaek 1928 ln 1213

A case of ovarian pregnancy l' Bass Zentralbi i Gynaek 1929 la 1640 come statistics on twinning J SANDERS Nederl

Tijdschr i Genresk 1928 xuv 1883 A case of twin pregnancy with an intra uterine and an

L GERN LAJOTE Canadian M extra utenne ovum 155 J 1929 X* 38

1 1939 Tour abortion from a uterus didelphys R I BAV AISTER BIRL M J 1939 1 16 Movements of a human embryo of 42 mm B Woj CECLONSKI I olska gaz le 1938 vii 99

The diagno is of fetal deformities in stero F H FALLS Im J Obst. & Gynec. 1928 xvi, Sor Poentgen diagnosis of anencephaly to hydramnion

AUJORS Zentralbi i Gypaek 1928 lu 1818 Roentgenological diagnosis of aren ephalus NESSA Radiology 1929 xn 66

Explantation experiments with human placents. W NEUWEILER Monatsschr f Geburtsh u Gynsek 1927 ITYV: 432

Placents and the overan hormone G 1813 Zm tralbl f Gynack 1928 lit 2030 A pharmacological investigation of the placental vesses

of rabbits S LLNOKI Jp J Obst & Gynec 1928 x, Angunsms of the placental arteries O Hivitze Zen

traibl f Gynaek 1928 lu 3,24 A clinical and etiological study of human pseudazon, lat placenta E ALAPTEN Zentralbi f Cynnes 1928 in

The upper route in the presence of premature separation of the placenta with a living fetus. R. J. AIRLED and A. T. SELTUN Semana med 1928 xxxv 917

Placenta prævia G C Siynore Sedert Ti dischr v Geneesk 928 han, 2325 Death following cervical placenta accre a mistaken for criminal abortion. W. Steinbiss. Deutsche Zischr f.d.

ges genicht! Med 1028 xit. 234 Report of a case of pla enta accrets, with a discussion of its treatment and the unu nal sequela R. A Willey Am J Obst & Gynec 1929 xvi 38

Blood group studies on retroplacental and umb'h al vein blood J voy KHREYS LER GLOGENBERGER Mona

tische i Geburtsh o Lynae 193 kees 104.
The ph 's ology and pharmacology of the umb calcuculation is Runco, is Bacre and it Harriany Arch

I Gymaek 1920 exx. 1v 625 A review of the pathology of roa consecuts e miscar nages in pri ate obster cal practice J L Hevrivorov

Am J Obst & Gynec 1929 xvii 32 A contribution on abortion R. Commentat Zischi i

Geburtsh u Gynael 1923 1014 174
The mana ement of abortions | B Roszers J Med Cincinnati 1929 ix 525

Experiences with therapeut c abortion semmer Deutsche med Wehnschr 1918 hv 1418

Mental disease a differentiation of abort on 11 D Nivers Jam M 1s 928 xc1 2042 Vagnal cessacean section as a method of therapeute aborton A 1 Reabortion A. J BE GOLEA Zentralbl. I Cynark 1928

The prophylans and treatment o performs of the uterus during artificial abortion C G Barrer Mon atsschr f Geburtsh u Gynaek 1920 Irris 414

Missed abortion F IRVING Med J & Rec 1929 Self-induced abortion E ASRICAN Med Klin 1928

EXP ISSI Actnomycosis of the female genital organs following abortion G Haselmorst Arch f Gynaek 1928 CTTSIV

The hypophysis of pregnancy and the ovarian hormone H BANIECKI Arch f Gynaek 1928 extiv 693 Unnary color and liver function in pregnancy O HEISCH Zentralbl f Gynaek 1928 lu 2411

The function of the liver in pregnancy I The occur reace of viscerosensory hepatic bile reflexes in preg nancy H EURINGER Arch f Gynaek 1928 exxxui

Cholecystographic studies in pregnancy R J CROSSEN and S Moore Am I Obst & Gynec 1028 xv1 810

The effect of calcium Sandoz on the blood calcium during pregnancy Rodecurr Med Klin 1928 the 1130 Abdominal pain in pregnancy C S LANE ROBERTS

Lancet 1928 CCXV 1288 [449] Spontaneous rupture of the uterus E G ABRAHAM Monatsschr f Geburtsh u Gynaek 1928 lxxix 393 Traumatic perforation of the uterus with severance of

rectum W W MAYWELL Am J Obst & Gynec 19 9 IVII 96

The early diagnosis etiology and treatment of pernicious types of anamia in pregnancy A Pour Zentralbl f Gynaek 1928 lu 1384 [449 Anamia in pregnancy C E GALLOWAY Am J Obst

A Gynec 1020 xvii 84 A case report of a permicious type of anæmia in preg rancy K. Atzeroot Monatsschr f Gebuttsh u Gynaek

1918 lyux 16 Heart disease and pregnancy J HALBAN Wien klin

Wchnschr 1928 xli 628 663 The indications for the interruption of pregnancy in diseases of the circulatory system N Jacic Beitr z

genchti Med 1928 van 26 Renes during pregnancy E KIEMCZYNSKI and C
RYLL ARDZEWSKI Gnekol polska 1928 vii 434
Leprosy and pregnancy Doe it justify the artificial

interruption of pregnancy and definitive sterilization A P RAMOS Semana méd 1928 XXXV 1013 Metabolic diseases during pregnancy and hunger cures P Rissaux Zentralbl f Gynaek 1928 lu 2584

Pregnancy associated with diabetes mellitus entre and F Roques Brit M J 1929 1 66 hausea and vomiting in early pregnancy O R THOMP

Sov J Med Ass Georgia 1929 xviii 17
Petnicious vomiting of pregnancy W J STEVENS

Canadian M Ass J 1929 xx 13
Totzmias of pregnancy J O Polak. New Orleans M &S J 1929 lxxx1 457

Report of further study of the poisonous amines as the thology of toxemias of late pregnancy II W JOHNSON R. A. JOHNSON and H. O. NICHOLAS Texas State J. M. 1920 XXIV 636

The influence of blood chemistry studies on the present treatment of pregnancy toxamias I Trrts J Med Soc A Jersey 1928 xxv 771 [450]

The fluctuation of blood sugar before and after an eclamp tic convol ion J M LAPERTY J A NARK and J J Two cases of necrosis of the renal cortex in toxicosi of

Pregnancy A Westman Acta obst et gynec Scand 1928 TU 235

Some physiological aspects of eclamptic toxemia L A LzDotx Am J Obst & Gynec. 1929 zvii 90

The prognosis and treatment of eclampsia and al buminuria J Young Brit M J 1929 i 91

The significance of nephritis of pregnancy R D Mussey and N M Keith J Am M Ass 1928 xc1 2044

Labor and Its Complications

Changes in the leucocytes during labor and the puer nerum I JARCHO Am I Obst & Gynec 1020 xvii

The mechanism of labor B CROTHERS I Am M Ass

TO 20 TCII GO Lelvic measurements and conduct of labor in contracted pelvis L Serrz and H GUTHMANN Muenchen med Wehnschr 1028 laxy 1487

Labor complicated by a spondylolisthetic pelvis G

Obstetrics in patients with high grade adiposity ALBRECHT Jahresh f aerztl Fortbild 1028 xix 26 A plea for rectal examination in labor H T BEST Tn State Med J 1929 1 71

Induced premature labor T HALCH Ugesk f Læger 1028 XC 60

Shortening the first stage of labor by means of thymonhy Sin A G LAURITZEN Ugesk f Læger 1028 xc 615 Scopolamine anæsthesia in the second stage of abnormal

labor B Van Hoosen Anes & Anal 1928 vn 353 [450] The influence of head and pelvic harmony on the dura tion of labor F N WALKER Canadian M Ass J 1920

The diagnosis of the chin and its value in the conduct of labor P H RULLE Zentralbl f Gynaek 1927 h 3291 High occipital position A GARBIEN Ginekol polska

1928 VII 39 The problem of the vertex occupitoposterior position A II BILL New England I Med 1928 CXCIX 1237 [450] Popular fallacies concerning occiput posterior positions of the vertex W D PORTER J Am M Ass 1929 XCH

Spontaneous labor with deep transverse presentation D BERLAS Polska gaz lek 1928 vn 345

The prevention of fetal injuries in breech delivery E R PIPER and C BACHMAN J Am M Ass 1929 XCII The fetal mortality in breech presentation. Is prophy

lactic external version advisable? E L KING and A H GLADDEN JR Am J Obst & Gynec 1929 XVII 78 Prophylactic obstetrical practice an account of 768 consecutive confinements with forceps delivery in general

practice H L LESTEVEN Med J Australia 1929 1 14 Rupture of the symphysis with high forceps and con tracted pelvis H KRAUS Muenchen med Wchnschr 1928 lxxv 1296

Repeated laparotrachelotomy ninety-one cases J B DeLee L E Nadelhoffer and J P Greenhill Am

J Obst & Gynec 1928 X11 784 The technique of and indications for casarean section

T HEYNEMANN Deutsche med Wehnschr 1928 hy The scope of exsarean section F Ivens But M J

1928 11 1166 Casarean section Some types and their uses S A McSwivey Indian M Gaz 1929 xliv 6

Low incision exsarean section A C Beck, J Am M Ass 1929 XCH 27 Casarean section and forceps when they must not be

used S A Coscrove J Med Soc N Jersey 1928 xxv

R I op.

Hæmostasis in abdominal cæsarean section KOWA Zentralbl. f Gynaek 1928 lit 2473

1076

Endometriosis of an abdominal scar following ca. arean section P H WILLIAMS Am. I Obst. & Gynec. torg EOI IIVE Decapitation A. Horvath Orvosi hetil, 1928 Ixtii

Two important prophylactic measures in the third stage of labor H SCHROEDER Zentralbl f Gynaek 1928 lu

Manual removal of the placenta H Perens Wien klin Webnache 1928 xli 1379 Utenne rupture caused by Crédé a manual expression W Conen Ztschr f Geburtsh u. Gynaek 1928 zent

Adenomyosis interna with severe hæmorrhage in the third stage of labor and in the purrpenum A Szenes Arch f Gynaek 1028 evzxiv 546

A new technique for caring for the ambilical cord S THURN RLUBACH Zentralbl I Gynaek 1928 lu 1416 The cau es for spontaneous rupture of the umbilical cord G HASELHORST Zentralbl f Gynaek 1928 ln

A case of malaria during labor. The question of congenital malana M I Magio Monatsschr f Geburtsh v Gynaek 1928 Ixxix 404

Puerperium and Its Complications

The management of the puerperum R KOERLER Wien klin Wehnschr 1028 zlt 1200

Postpartum care R L SEIBELS J South Carolina M Ass 1929 xxv 205 Increasing the function of the breasts by artificial sun

light E Voor Deutsche med Wehnschr 1028 hv 1367 Observations on blood sugar and serum calcium in rela

tion to lactation in women with a study of its possible relationship to partition paresis V J Harring H Morrey and C E Downs Am J Obst & Gynec 1928 X11 765

The cessation of menstruation during lactation learnes Zentralbl f Gynaek 1928 lu 1666 (452) Puerperal morbidity and mortality P B Brayn Med J & Rec 1929 CERT 82

Protein therapy to insanity of puerperal origin BARKIN But M J 1929 1 67 The known and unknown concerning puerperal sepsis
If Schottweeter Muenchen med Wehnschr 1948

lxav 1580 1634 Report of the Committee on Survey of the Incidence of New Puerneral Septicarnia in Mas a husetts in 192 [453] England J Med 1928 excit 1253

Streptococcal vaccines in the treatment of puerperal 1918 11 1082 The use of anti-scarlet fever serum in infections of the pu menum K. Zaleser Ginekol polska, 1928 vii

Puerperal tetanus a case report O H HEBOLD Zen tra'bl I Gynack,, 1928 In 2001 Puerperal gange as E G Long. Monatosche f Geburtsh u Gypack 1928 kszx 17

Puerperal ganciene of the uterus M Sprises Zen tralbl. f Gynack 1920 lu 2168

Putrperal gangrene of the lung P Dasswiss Z ntraible f Gynark 1928 in 2330
Petron peragonoidal and permectal abscess es in the puerperium H Perces Zentralbl. f Gynaek 1928 lis

The occurrence of chyluma after confinement S S RAO Indian M Gaz 1919 law 87

Newborn

The u e of foot prints and finger prints as identity reords in the maternity II County's New Orleans M & S J., 1919 ltxx1 493

The healthy and the sick inlant A text book for nurses. W RISCHBIETER 1928 Dessau Salzmann The asphyxiated infant V L WARD California & West

Med., 1929 xxx, 33 The first nursing of the newborn Williams Zentrabl f Cynaek 1928 ht. 2359

The care of the umbilious in the newborn I FRIGYEST Zentralbi i Gynaes 1928 in 2221

Infant circumcision W P D Van Auger N York State J M 1929 xxix 82 A case of intra uterine traumatic fracture of the femurand di location of the left hip in a newborn. I Doir str.

Ginekol polska 1928 vii 3 5 Fetal clefts combined with other developmental dis-turbances B BEUTHNER Monatsschr I Geburtsk u

Gynack 1923 lxnx 425 An interesting case of meliena and hamatenesis in a newly born baby S C Sey Gupra Indian M Gaz

1020 xliv 25 Idiopathic hemorrhage in the newborn G H. Roz ars Brit VI J 1920 i 68

Anamia of the newborn infant, E W Engagy Am. Dis Child 1920 xxxvii 118 The role of arterial occlusion and anoxemia in the case

of the cerebral diplegias H R MERWARIE. V York State J M 1929 XXII I Pemphigus neonatorum T H C Beviles and B H

Joves Lancet 1929 ctxvi 174 Epidemi pemphigus of the newly born F C 111 Arch, Pediat 1929 sivi 24

Impets o or pyodermatitis neonatorum. C B REED Am J Oust & Gynec 1910 xvii, 49
Gangrene of the skin of the right foot in a newbo infant & DE Sago Nederl Tijdschr v Geneesk 1918 Lean 3015

Herma in an infant three days old dea h from saprama E D SMITH. Internat J Med & Su g 1929 als 13 Phreni nerve paralysis as ociated with Erb's palsy in the newborn A MULIER Muenchen med Wehnsthe

1928 lttv 1498 Tissue differentiation in a holoacardius amorphie. G DE BUSSCHER Vlasmsche geneesk tijdschr 1916 of The early mortality of the newborn H II.mi

Wien klin Wehn chr 1928 ch 1577 In rease of the infant death rate durin and after parturation O FARLERI SCH Llin Wehnschr 1918 va. 1861

A striking age variation in the infant death ra e A Schros-Many Klin Wehnschr 192 vi 1248

Miscellaneous

Advances in obstetrics and thei practical significance T HEYNEMANN Med Khin 1928 XXIV 1419 Newe orientations n obstetries I Eversuary Zen trainly f Gyraek 1928 in 2019

Old Indian obstetres R F G Muzzter Arch I d Gesch d Med 1028 xx 233

The scope of prevent on in obstetrics and graceology P (DUTTA Antiseptic 1929 EXVI 1

The decline of fruitful marriages and the birth rate in Monatsache / Geburish & Lu ope 11. ALBRECHT Gynaek 1928 leve 08

Sol ochin in obstetrics E voy Away Dectache med

Wehns.hr 1928 liv 1465

A study of 270 deaths of primiparse M F Dekruis New England J Med 1928 excit 1302 Venous section in ob tetri s P BALARD Rev franç de gynéc et d obst. 1928, xx111 525 Differences in the blood pigments in man and animals before and after delivery H HENTSCHEL Muenchen

med Wehnschr 1928 Lyny 1237

The behavior of the blood platelets in labor, the nuer perium and certain obstetrical complications WAY Orvosképzés 1928 vym 136 14531 Two questions on the inter illous spaces W STOECKEL

Zentralbl f Gynaek 1928 ln 2,78 Chorio angioma L Mayer Arch f Gynael 1028 CAXXIV 482

GENITO-URINARY SURGERY

Adrenal Kidney and Ureter

Adrenal transplantation and organotherapy in Addi son s disease E Leschke Med klin 1028 liv 1268 Inchamic necrosis of the adrenal gland R REITANO

Spenmentale 1928 lxxui 7 9
Adenoma of the adrenal cortex J B Hicks New England J Med 1928 excex 1140

The diagnosis of a malignant adrenal tumor from a signal metastasis. H. U. Hirsch Hoffmann. Zentralbi f Gyazek 1928 lu 1970

Primary extrarenal hypernephroma A E Borite Ann Surg 1928 LXXVII 1028 4541 The clinical picture and pathological anatomy of leu

coplakes of the upper part of the urmary tract A DAMSKI and W ALJAKRITZKI Ztschr f urol Chir 1928 xxv Paranephritic abscess in childhood J S Eisenstaedt

J Am M Ass 1929 Yen 48 The physiology of the milking muscle of the kidney M Meschar Am J Med Sc 1928 clxxvi 851 [454] The role of kidney function in urological surgery H G [454]

BUGPEE J Urol 1928 XX 541 [454] The urea tolerance test an index of renal function E

S king Arch Int Med 1028 xin 877 The vanthoprotein reaction the urochromogen reaction and the kaolin test as tests of renal function. Also a con tribution on the question of renal insufficiency and hyper ten ton H WIDENHORN /tschr f urol Chir 1928 xxv

Renal function in undateral disorders of the Lidney

E. B MAYRS But M J 1928 11 1028 eparate kidney function further observations on the specific gravity test and improvements in technique L C

Toph J Am M Ass 1929 xcu 228 The action of nicotine on the renal plexus and ureter M Conv Ztschr f urol Chir 1928 xxv 89

Renal back pressure conclusive evidence as to its cause obstructive lesions of the bladder neck and urethra

H A R AREUTZMANN J Am M Ass 1929 xcii The value of pyelography in surgical conditions of the hidney (diverticulum of the right ureter associated with complete duplication of the left ureter and pelvis and a

polyp of the right preter) \ Priveric Ztschr f urol Chr 1918 xuv 570 Renal pelvis obstruction W H Mc\ritt Am J Surg 1029 12 80

The diagnostic significance of the ampullary renal pelvis

H.] LAUBER Zischr f urol Chir 1928 x v 93 Routes of absorption in hydronephrosis experimenta [455] tion with dies in the totally obstructed ureter D M Morroy Proc Roy Soc Med Lond 1928 xxxx 210

Obstruction to the venous circulation in the kidney caused by distention of the pelvis and calvees with special iderence to pyclovenous backflow J C FERRER J Urol 1928 XI (01

Variations in the scrum electrolytes in patholo-ical condition of renal origin with pecial reference to the cause of renal acidosis H A SALVESEY Acta med Scand 1028 Iviv 126

Pychtis in children R P FORBES Colorado Med 1020 XXVI 13

Pyelitis from an internist's standpoint R W ARNET Colorado Med 1020 XXVI 10

Pyelitis from the standpoint of the urologist II WEAR Colorado Med 1020 xxv1 10 Multiple calcult in left pelvis of a horseshoe lidney S

R WOODRUFF Am J Surg 1929 vi 90 Renal ureteral vesi al and impacted urethral calculsumultaneously in the same patient S R WOODRUFF

Am T Surg 1020 v1 01 Several cases of strikingly rapid calculus formation in the remaining kidney following removal of the other Lidney R CHWALLA Zischr f urol Chir 1928 XXV

Dermoid cyst of kidney J J VALENTINE Am J

Surg 1929 vi 93 Hydatid cyst of the kidney R P ROWLANDS Guy s Hosp Rep Lond 1020 lyux 117

Granitz tumors of the kidney G I Gasparian Ztschr f urol Chir 1928 var 84 Spindle celled sarcoma of the kidney in adults H L KRETSCHMER and H S RANDOLPH Ann Surg 1928

IXXXVIII 1033 Case report-carcinoma of a horseshoe kidney I C

KIMBROLGH Mil Surgeon 1929 lxiv 91 The therapeutic value of nephropery W BILLINGTON Brit M J 1928 11 975

A new method of paravertebral anaesthesia for kidney operations Report of thirty three cases R B HENDINE J Urol 1929 xx1 27 Nephrectomy under spinal anæsthesia with particular

reference to nephrectomy in renal tuberculosi JECK J Urol 1929 Ext 61

rest in test [456] Supernumerary ectopic ureters W M SPITZER and

I E WALLIN Ann Surg 1928 LEXXVIII 1033 Ureteral activity in some pathological conditions studied by the graphic manometric method H R. TRATTYER Arch Surg 1928 ava of 8

Transplantation of the ureters into the bowel A R STEVENS Am I Sure 1020 vi 02

Ureteral stricture as a cause of attempted suicide M BERNSTEIN Ann Int Med 1929 II 682

The ureter as a possible origin of certain diverticula of te bladder J R CAULK J Urol 1929 xxi 23 Congenital and acquired ureteral backflow O Koester the bladder

Zentralbl f Gynaek 1928 lii 2256 Dynamic functional hydronephroses follosing ureteral sympathectomy P BLATT Ztschr f urol Chir 1028 XXV 148

Abnormal course of the right ureter associated with a developmental annualy of the suferior vena cave D vox Gerrar. Zischr f urol Chir 1938 xv 279

Double ureter with hydropyo-ureter ending to the posterior uretim diagnosed pre-operatively nephro-ure terectomy cure k. Hasilvorg. Zischr f urol. Chir 1928 xv 267

The transperitoneal removal of a stone impacted in the

pelvic portion of the ureter H W SWEETVAM Med I

Australia 1928 tt 819
A case of large extravesical uneteral stone which had perforated V O klets Zischr f urol Chir 1928 xxiv 518 14561

Bladder Urethra and Penis

Complete inversion of the urmany bladder C F PASLEY But M J 1929 1 202 Colored cystoscopy J J Sturzen Zischr I urol Chir

1928 XTV 202

1020 1 154

The influence of diverticular calcification of the bladder upon renal elimination. U. ISVARDI. Semana med. 1918 1833 1037

Diverticula of the unnary bladder with a report of 110 cases W E Lower and C C Hisgies J Urol. 1928 ve 615

Leucoplakia in a bladder diverticulum A R Stevens Am J Surg 1929 vi 93

The pathology of vesical neoplasms P W Aschyer
J Im M Ass 1928 of 1697 (437
An interesting case of vesicular mole K V Joctekar
Antiseptic, 1928 xxv 729

A case of lenomyosarcoma of the bladder B H Hacer and V C. Hovr J Urol 1929 xxi, 129 keeping the patient dry after vesseal operations S W

Mooritean Pennsylvania M J 1928 xxxii 155 Notes on a case of congenital obstruction of the urethra. II Morris and E D A McCrea Brit J Radiol, 1928

The operative treatment of large defects in the urelbra I key Acta charurg. Scand 1928 Lim 545 [457] Divertiful of the male urethra a report of tra cases R W Mckay and J A C Colston Surg Gyne & Obst 1929 July 57

The reentgenological demonstration of stricture and rupture of the u ethra. FARTSCH and BREITLAENDER Zischt f urol Chir. 1928 XXV 108 [458] 458] A large urethral calculus. J. MacEwa. Brit. M. J.

Genital Organs

A comparative study of clinical dysfunction and ure throscope pathology unfolying the love procental tract in the male. A L. WOLBARSI Internat. J. Med. & Surg. 1929. Min. 15

Tuberculosis of the genital tract II C Brusts Jr and G J Thourson Surg Gynec & Obst 1928 xivil 101 [438]

The surg al treatment of urogenital tuberculosis F Hranas Surg Chn N Am. 1938 vin 139 [458] The present status of the prestate punch operation II C Brasers Jr. Minnesota Med 1939 vin 22

The author's cautery punch for prostatic obstruction
J R CAULE. J Oklahoma State W Ass 1928 Km 32
[458]

Surgery of the prostate gland with a report of operative results. O S LOWSLEY Proc. Roy. Soc. Med. Lond., 19 S xxii 33. [457].

Frostate-tomy R. Ram. Antiseptic, 1920 xxv., 47.

Frostate.tomy R. Ram Antiseptic, 1920 Ext., 47
The technique and results of pro tatertomy J is B
Thomas Ars med. 1928 tv 320
Review of 100 ages of prostatectomy with special

reference to early diagnosis W C Strains and II. W ROLLINGS Ja Virginia M Month 1929 by 609 The pathology of epididymitis II C ROLNICK Sure Cynec & Obst 1028 ktyls 850

Gynec & Obst 1928 xlvn 856 466
Septic ef ididymitis with special regard to the forms with
a chroni course E Livogrev Zischr i urol Chir

Tuberculosis of the epiddymis a critical review based on the study of nubety four cases II L Kretschurge.

Surg Gynec & Obst. 1928 rivu 652 [469]
A case of funculities of traumatic origin Rudikuta and
Solder silla Proc de la chin Madnd. 1928 xvi, 6 9

Transmatic orchitis a misnomer VI B Wess'v Am VI Ass 1928 xci 18 7 [461] Factors controlling the arterial supply of the test, sunder

experimental conditions 1 loransov I E Exert, and H J Piera Anat. Reco d, 1929 zh 157 Torsion of the appendix of the testis (bydatid of Mor

gagni) L R Brostier and R Covre Life M J 1929 L 145 Torsion and strangulation of a hydatid of Morgagu, D

ABERNETHY Brit M J 1929 I 144
Adenocarcinomy of the testus in the adult. A R. Steveys

and J David Ann Surg 1928 Iterum to 4 [661] Carlinoma of the testicle J E Ketter and V C Hopper Ann Surg 1928 Iterum 1939 The technique of sounding the ejaculatory ducts 4 Nov LICHTEABER and W HEYPERIVY Zische I und

Chir 1928 XXV 286
A revolver bullet imbedded in the shalt of the pc i...
C O Rinca J Urol 1929 vii 141

C O Rifeld J Urol 1939 vt 141
The treatment of a case of mile hypo padus A. B.
Creil. Surg Clin N Am. 1928 viii 1343
The treatment of a case of male epi.pa has A. B. Creil
Eurg Clin N Am. 19 8 viii 1351
[85]

Miscellaneous

Ikono raphia urologica C Posver A Romasi in and F Necker 1928 Berlin Stilke

The physiology of micturition F II Repewill.

Am M Ass. 1918 zci 1960 | 16

The philosophy and logic of di gnosis in urology B Lears South M J 1929 vili 15 Extravasation of urine H M Soloway J Urol 1928, xx 509

I bosphatuma Lagire and Espinosa Med Ibera, 1915,

Felvic kidney and genital aplasia R Strictatura Win klim Welmas br 1928 al 115°

The treatment of infection of the unnary tract. K.
LEISTED and E School r Acta med Scand 1928 let

The carly diamosis and treatment of the beautiful stages of tuberculosis of the unpary organs. L. Fars

Etscur f urol Chir 1928 v. iv 421

Primary suture in urological operations Also a continuous crystopexy I Rosevstrein Zischr f urol. Chi
1928 ziv 248

SURGLRY OF THE BONES, JOINTS, MUSCLES TENDONS

Conditions of the Bones Joints Muscles Tendons Fac

Two rare sport injuries L CZIRER Orvosképzés 1928

The development of bone (a) the process of development in bones of different types (b) normal physiological cal cafcation of the matrix in cartilage and in bone (c) the problem of the manner of deposition of the calcium salts C WATT Arch Surg 1928 tvii 1017 Ossification and growth of children from one to eight years of age R O SAWTELL Am J Dis Child 19 9

The nutrient vessels of the medullary cavity of the long bones of the extremities in Japanese T LWAO Tr

Japan path Soc Tokio 1928 vvi 145

Primary heterotopic hone formation VON SEEMEN Zentralbl f Chir 1929 ly 2608 The production of fibrous changes in the marror in

animal experiments HOFFMEISTER Zentralbl f Chir 1928, ly 2008

The problem of regeneration and the influence of chemi cals on bone regeneration H BURCKHARDT Beitr z klin Chir 1928 cxliv 1

The rôle played by the connects e tissue in the regen eration of bone W SCHULZE Zentralbl f Chir 1928

The role of the connective tissue in bone regeneration E LEVER Zentralbl f Chir 1928 lv 269

Microscopic examination of tissue curetted from bone smuses H D CAYLOR and H T JOVES J Bone & Joint Surg 1929 x1 36

Seven cases of diaphysial aclasis (multiple exostoses) in Indians including four cases from one family H Stort

and R LALL Indian M Gaz 1920 xliv 10 Bone hyperæmia in paralysis Von Stackelberc Zentralbl i Chir 1028 lv 2703

Experimental studies on the bone atrophy of Sudeck Secret Chir d organi di movimento 1928 xili 1

The clinical picture of osteopsathyrosis B STEINER Or ost hetil 1928 lxxii 1112 Anemic infarcts in bone AXHAUSEN Zentralbl f

Chir 1028 lv 2142 harme infarcts in the osseous system and their sig micance with regard to the theory of primary epiphyseal acroses G AXMALSEN Arch f klin Chir 1928 ch

(465) The pressure density of cancellous bone C GOECKE Beste z klin Chir 1928 crlin 539

The influence of periarterial sympathectomy in the espenmental osteomychtis due to pyocyaneus infection Machitho Sperimentale 1928 Ivxxii 64

The occurrence and clinical significance of epiphyseal across S Nowicki Polski Przegl chir 1928 vii

Ostetus tuberculosa multiplex cystoides Also a con tribution on tuberculid of bone O JUENGLING Bestr z klin Chir 1928 exli : 401

Avery rare bone condition \ MEADE Brit J Radiol 1928 1 4% Bone tumors The correlation of pathological and X ray findings in their diagnosi D B I HEMISTER North vest

I ceer eres ball Juvenile monosteal osteo., -t ophia fibrosa with tumor ofmation in rare location II HELLNER Beitr z klin Cpn 101 cxl 01

The anatomy and clinical picture of sarcoma of the extremities M Iwavoro Mitt Path (Sendai) 1028 iv The formation of free bodies in bursal exostoses F ETTORRE Zischr f orthon Chur 1028 I III

O teochondritis dissecans and trauma Lozziv Zen traffit f Chir roz8 ly 2,04

The pathogenesis of osteochondritis dissecans in endemic cretinism A Scabell Schweiz med Wchnschr 1028 Ivii 703

The etiology and treatment of chondromatosis of the joint capsule G HABFRLER Ztschr f orthop Chir 1928 xlix 582

Joint chondromato is A HERRESBACHER Orvoskénzés

1028 XVIII Chondromatosis of the joints P Kostock Beitr z klin Chir 1928 cyliv c8

So-called chondromatosis of joint capsules T Beck MAN and G. IVARSSON Acta chirura Scand 1928 lini [466]

Medicolegal aspects of joint chondromata P Rostock Arch f orthop u Unfall Chir 1928 xxvi 593

Arthriti and the orthopedic surgeon A O REILLY J Missouri State M Ass 1929 TXVI 12 Infection as a factor in arthritis R L HADEN

Missouri State M Ass 1929 XXVI I Symbilis as a cause of arthritis C B FRANCISCO

Missouri State VI Ass 1929 TEVI 2 Physical means in the treatment of arthritis EVERHARDT J Missouri State M Ass 1020 xxv1 7

The radiological a pects of arthritis S Missouri State M 1 s 1929 xx 1 4
Arthriti rheumati m and pseudorheumati m Λ Γ

CAGIGAL and B I ROBERT Ars med 1928 IV 313 The pathology and treatment of pyogenic arthritis D B PHEMISTER Pennsylvania M J 1928 xxxii 52 14661

Chronic infe tious arthritis and its surgical treatment inje tion procedure synovectomy etc I. PAYR Ztschr f klin Med 928 cviii 4 4671 A recording arthroflevometer I 5 PARKER I Bone

& Joint Surg 1929 X1 126 The pathology and clinical picture of ankyloses E

Risax Deutsche Ztschr f Chir 1928 ccai 115 Primary neoplasms of muscles | Golakowski Polski

Przegl chir 1927 vi 543 Primary angioma of striated muscle Z RAPIPORT Polski Przegl chi 192 vi 562

The etiology of tenovaginitis crepitans I Felsey REICH Deutsche Ztschr f Chir 1928 ccti 175 The high shoulder G GERO Orvosképzés 1028 xviii

Lesions produced by forced abduction of the shoulder E RINFORD Surg Clin \ Am 1928 viii 1299 [468] Purul at pneumococcic arthritis of the shoulder Gor.

BFL Zentralbl f Clur 1928 lv 2523 A thritis of the acromiocla icular joint its diagnosis and treatment I LRLES Beitr z kl n Chir 1028 cxl v 270 O ifications of the costal cartilages their relation to

habitus and disease F RILBEL 1m J Roentgenol 1020 XXI 44 D fferentiating traumatic and pathological tears of the

long head of the biceps I STEINMANN Monatsschr ung Mediziner 1928 ii 202 Radiohumeral meniscus J Hoers Med J Australia

Madelung s deformity Case report W Felix Ztschr f orthop Chir 1923 xlix 563

Tendon sheath stenoses at the wrist. O WINTERSTEIN Schweiz med Wchnschr 1928 Ivm 746

Loss of the fingers Based on 400 hand intures in the Saiss accident insurance bureau at Lucerne R BAUMANN Schweiz med Wehnschr 1928 Ivin 918 030 The present status of post traumatic disease of the verte bræ (Kuemmel's disease) H kuemmet Sa Arch. f

Orthop u Unfall Chir 1923 Xvv1 471 Lippel Feil's di case H Heidecker Beitr e blin Chir 1928 other, 303

Remnants of the notochord in the vertebral column G

SCHMORL Zentralbl f Chir 1928 lv 2303 Some misleading developmental variations of the verte bray of diagnostic importance R J HARREYSTEIN Nederl Tied chr v Geneesk 1929 lext 4011

Internal dyna nics of the vertebral column and scoliosis G I uscu Ztschr f orthop Chir 1928 I r The pathology and treatment of scouosis based on

roentgenological studes K long Arch f orthop u Unfall Chir 1929 xxvi 3 9 Localized oate dystrophy of the vertebra H HELLYER

Bestr z kl n Chir 1918 cxhy 41 Mild o teomyelitis of the vertebre R InFormand P INGELEANS Bull et mêm Soc nat de chir 1928 li

1445 What do 151 cases of acute anterior poliomyelitis teach us? I von Assen Ztschr I orthop Chir 1928 I 136 Spondylosis II HAYER Zentralbl f Gynaek 1928 Tr 2211

Neurological disturbances associated with hypertrophi arthritis of the spine F C WAGENHALS Ohio State M I

The value of the ro ntgen ray in the recognition of beginning deforming processes of the vertebre (spondy litis deformans and spondylo-arthritis chronics SCHERESCHEWARY Zischr f d ges phys Theran 1028

2237 238 Spendyhtis produced by the abortion bacillus of Bang I I JENSEN Hop Ind 1918 Ixu 63 [468] Myeloma of the spine D C DUBMAN Ann Surg 1928

lxxxvui 975 Aseptic epiphyseal necrosis of the thoracic and lumbar vertebra Kosevo Zentralbl f Chir 1925 1 2 25 ray examination of the lumbosacral egion with

reference to low back pain P F Cole J Missouri State M Ass 1928 xtv sf [468] Sacro-thac pain W HARRIS Lancet 1928 CCV 1230 (468)

14691 The relation of arthrit, of the sacro than joint to scratica [469] LEONAN Lancet 1928 cctv 1119

The role of the thosacral joint in static backache 11 ALBRECHT Arch i Cynaes 193 CSS V 437
Spondylohsthes 5 N Aar Nicolalsen Med Rev

Bergen 1928 xiv 17 A report on a specumen of spondyloksthesis found in the skeleton of a Bartu nati e of South Minca L R SHORE Bnt J Surg 1029 TV1 431

Two cases of spondylolistic is J Novak Zentralbl f Cynaek 1928 Lt 2 02 Shatorucal anomalies of the lower end of the vertebral column E Lick Muenchen med Wehr schr 1928 bere

A typical form of lumbo acral osteochondropathy T B(850v) Fortschr a d Geb d Roent enstrablen 028

XTT1 11 92 A case of congenital deformity of the hip with absence of a part of the femur and fibula MARTINEZ Prog d la Madnd 1928 TVI 661

Bilateral snapping hip A M Di Ki Sov Am J Surg

1929 11 97

The processus supreconduloiden femorie O Harv Beitr z klin Chir 1929 cdiv 253 New contributions on the etiology of malformations of the neck and head of the femur R WHEREA, Arch f orthop u Unfall Chir., 1929 xxv1 537 Tuberculosis of the trochanter M HEISS Bit z

klin Chir 1928 crity 293 On dislocating cora vilga clinical and etiological con siderations & Musit Ca op lek cek 1928 ht 9 1

Coxx vara and epiphysiolysis H HcR atti Orvockepzés 1028 xviii

Fat in traumatic effusions of the knee joint D H. Kirko Am J Sure 1927 vi 72

Further experimental studie in the pathology of internal derangement of the knee B Pran Doutsche Zischr f

Chir 1928 cca: 339 Internal derangement of the knee and the la e resalts of operative treatment R Morary Deutsche Zischr i

Chir 1928 ccm 318 The nathogenesis, clinical scorets and treatment of the find knee in its relation to the collateral tional byament O HESELER Weerzh Abhandl a d Gesamtgeb d Med

1029 V 145 Deformity of the bones of the leg Knozz Zuchr !

orthop Chir 1928 xhr, 223 Torsion of the lower extremity and its significance in the development of deformities G BRANDT Zischt f orthop Chir 1923 xhr 481

The so-called congenital pseudarthrosis of the thus The pathology of congenital pseudarthross o the that R B WADE J College Surg Australisia 1 181 Ivorra J College Sur, Au tralasia I rot Spontaneous gangrene of the lower extr m to in south. M GRASMANN Muenchen med Wehnselr 192 ten

Free bodies in the ankle joint W Schos E Ex Z a

traib) f Chir 1028 lv 2256 The history of the human foot and its bearing on orthopedic practice Six A Leimi J Pone & Jo + Surg 1979 22 25

Foot complaints con era a the care ation and treat ment O VULPILS Monateschr ung Mediziner to 3 a

A case of congenital tal nes calcaneovale smith a strange des lopment of the astragalus H VILLOVVE J Bone A Joint Surg 1929 to Go

The theory of con racted flat foot S West. Be tr a Lin Chir 1928 exhv 182 Flat foot complaints and mult ple scierosis F Persex

Zentralbi i Chir 1928 lv 239 The chinical picture of hallux randus J schretter Muenchen med Wchaschr 1918 Leve 1643

Hallus algus W & Hoone J College Curg Australasia 1928 1, 214 The chinical picture and analysis of varus d formity the foot and its bloodiess or recon. F. Mouse.

Atsch f orthop Chir 1928 1 1 3 Combined discuses of the foot, R Ava. Med Lin, 1918 YUV 1351 The family t ce of a patient with Eddowes judiome

E Moules Acts med Scand 1925 lux 2 3

Surgery of the Bones Joints Muscles Tendons Etc

Apne matic bone operating set W H Occavit. Lancel

1928 CCSV 1 77 Instruments for making curved holes in certain boers P Lawin I Bone & Joint Sur, 1929 23, 59

Some instructive cases in home surgery. FENENER 4.ch f klin Chir 1928 ch 432 Subpenosteal resection of severe rachitic deformities and

the subsequent reg negative changes in the bone SCHOESSWANN Beitr z klin Chir 1928 cxbii 36, The results of the treatment of oscudarthroses in the Lepug survical clinic Osuan Deutsche Zt chr f Chir

102 CCL 88 The question of the radical resection of primary malig pant tumors of bone in the presence of spontaneous frac ture L VON STUBENRAUCH Zentralbl f Chir 1928 lv

The present status of Sauerbruch's technique for ampu tation with particular consideration of the permanent re sults L STROEL Deutsche Ztschr f Chir 1928 ccvi

Surgery M KIRSCHNER and O NORDWANN Surgery of Surgery of Rescarded and O'RORMANA Surgery of the points and bursas Surgery of the points exclusive of tuberculosis E SEPERT Surgery of the joints exclusive of tuberculosis E STANHE Tuberculosis of the joints F KORMO The bursae E SEPERT 1928 Berlin Liban & Schwarzenberg

Indications for surgery in tabetic arthropathy K DEM

JAMINEH Orvosképz's 1928 TVIII The operative treatment of flaccid and spastic paralysis

in children W REINHARD Deutsche Ztschr f Chir 1928 The surgery of muscle and tendon in relation to infantile paralysis \ Devi Proc Roy Soc Med Lond 1028

The treatment of the sequelæ of poliomyelitis L Kerrz Ztschr f aerztl Fortbild 1928 xxv 319 Tendon transplantation H AUCHINGLOSS Ann Surg 1929 EXXXX 145

The pathogenesis and treatment of congenital high shoulder B KOEHLER Deutsche Ztschr f Chir 928 cen 16r

The treatment of injuries of the hand S BUNNELL California & West Med 1929 xxx 1 The results of a new operation for the substitution of a themb J L Joyce Brit J Surg 1929 xvi 362

The re ults of spine fusion for scoliosi 5 KLEINBERG Bone & Joint Surg 19 9 vi 66 Operative fusion for tuberculo is of the spine M 5

HENDERSON J Am VI 188 1929 XCII 45 The indication for the Albee-de Quervain osteoplastic eperation in tuberculous spondy htts G DARDEL Schweiz

med Wehnschr 1928 1 in 570 Value of ankylosis of the vertebral column by free bone transplantation in tuberculous spondyl tis E Koevic

Arch f klm Chir 1928 cli 505 Multiplet graft technique for extra articular arthrodesis of the spine C M GRATZ Surg Gynec & Obst 1929 Ilviu 119

An operation for pilon dal sinus F H LAMEY Surg Gya c & Obst 1929 xlvin 109

Handbook of practical surgery Vol 6 Surgery of the buttertiemity C Garre II KUETTVER and I LEXER 1925 Stutt-art Enke

Extra articular immobilization of the hip joint H C STRUM Surg Gynec & Obst 1929 xlvnt 112 and results of extra articular axation of the tuberculous hp in children F C KIDNER J Am M Ass 928 CI

Operative lengthening of the femur H W LAMB Incland J Med 1929 cc 1 9

Plastic operations on the neck of the femur DEUTSCH LAENDER Zischr f orthop Ch 1928 vlix 309 hysological inci ion for app each to the knee joint I ERELS Vied Klin 1928 XUV 1340

The operative treatment of chronic non specific di ea es of the I nee joint I MANDE Arch f klin Chir 1928 ch The formation of a Gritti stump with wed_e implanta

tion of the patella F OEHLECKER Zentralb! f Chir 1028 h 22 0 Ano toperative splint for hallux valgus C F CLAYTON

I Bone & Joint Surg 1929 vi 63

Fractures and Dislocations

Companison of estimated and actual disability in cer tain groups of fractures follow up cases deductions F DUNCAN Kentucky M J 1929 TVIII 17

An analysis of fractures at Lanch Kentucky mines dur ing the past five years. M. H. Topp. Kentucky M. I.

1020 TTVII 13 Instructive fracture and other orthopedic cases I S GAUL South M & 5 1929 xc1 13

Outlines of fracture treatment E Gold Deutsche Ztschr f Chir 1928 ccvi 116

Some observations on the treatment of fractures C VIDAKOVITS Monats chr f ung Mediziner 1928 il 2,0 The treatment of fractures without splints G A HEN DON Kentucky M I rozo vxvii 3

The operative treatment of fractures K. SAILER Orvos képzés 1928 xvi i

A few fallacies in the treatment of fractures R Caro THERS Internat J Med & Surg 1929 xlii 40

A series of fractures of the long bones treated by the methods of R Hamilton Russell C Craig Med J Aus tralia 1028 H 808

Osteosynthesis with metallic wires and Lambotte's for ceps J TRENCHS Ars med 1928 1v 3/0 I ne v model of the unit splint of the Von Eisel berg Clinic R DEMEL and H KUNZ Zentralb! f Chir 1928

ly 2600 Ob ervations on the healing of fractures in infants E Bors Zentralbl f Chir 1928 lv 218,

Ununited fractures M I PAYNE Virginia M Month 1020 lv 1.1

Delayed fracture healing L. WERWATH Deutsche med Wehnschr 1928 liv 1334 Traumatic posterior dislocation of the shoulder

SIMON Ča op 1 k cesk 1928 Ivvi 787 [472] The treatment of fracture dislocations of the shoulder oint N SILEVERSKIOLD Acta chirurg Scand 1028 Exiv 227

Recurrent anterior dislocation of the shoulder T NICOLA J Bone & Joint Surg 1929 xi 128
Indications for the operative treatment of habitual dis

location of the shoulder F MINAR Slovansky sbornik o toped 1928 III 182

I ractures of the clavicle D. L. ELLASON J. Am. M. Ass. 1028 xci 1974 Anterior d slocation of the elbow 1 I Tees and L H

MCKIM Canadian M Ass J 1929 XX 3 Malunited fractures and unreduced di locations about

the elbow W C CAMPBELL J Am M Ass 1929 xcll 122 Radial subluvation in the adult 5 REMIGOLSKY Deutsche Ztschr f Chir 1928 ccx 1,0

B lateral congenital dislocation of the ulna based on an observation in the surgical clinic at Munich K GUENTHER 1927 Inaug Diss Muenchen Extension treatment of fractures of both bones of the

forearm F Mounteen Ztschr f orthop Chir 1928 t Bloodl sa treatment of dorsal di location of the carpal lunate W JAROSCHY and H V GREGORA Med Klin 1028 XXIV 1340

Fracture of the triquetrum and its relation to trauma of the navicular lunate system [] Sixty Casop [] & česk

Fractures of the carpal scaphoid J H BIENETT New England J Med 1929 or 126

Fractures of metararpals and phalanges P B Macvo son J Am M Ass 1938 vci 1339 [472] Fractures of the base of the first metacarpal bone with special reference to the mechani m of their production A

VIACLICIO Chir d organi di movimento 1928 sui 58 Treatment of fractures of the fingers M FLAGER

Ugesk f Læger 1928 xc 935
The treatment of ubcutaneous tib fracture R Source Zentralbl f Chir 1928 lv 2317

The treatment of subcutaneous nb fracture with a bind er W Gross Zentra'bl f Chir 1918 by 1919 Spreading subcutaneous emphysema after fracture of a

nb R \ Goodispre lint \ I \] 1939 1 155

A new apparatus for immobilizing the head and neck in

fractures of the cervical spine S S Hanking J Bone & Jorit Surg 1920 x 33
Fracture of the spinous processes of the loner cervical and upper thoracic vertebra due to muscle pull F Zor Liviota Monatsis br I ung Mediumer 1938 in 18

Injury to the transverse processes of the lumbar verte brackfrom indirect trauma F Dianara Zentra bl. f Chir 1613 bs 2005

Fracture of the transverse processes of the first to fourth right lumbat vertebræ J Sakta Ros. N. Aux Shaeiz med Wchnschr 1928 ivin 850

Some observations on pelvic fractures from the surgical clinic at Llausenburg V MARLINGANG Clu) med 1928 ix 374 Inte esting pelvic fractures L. Adam Oriosképzés

1928 vvii: 34
An anomalous case of congenital luvation of the hip. F

MARCARIT Ats med 1928 w 331

The value of podipin injection for visualization of congential dislocation of the hip Strivers Zischr f orthop

Chir 1928 xlix 300

An interesting observation during treatment of a congenital dislocation of the leg. F. LORFFLER, Zentralbl. f. Chur. 1248 by 4387

The treatment of congenital dislocation of the hip by open operation W R MacAustann Surg Cyan. & Obst. 1028 thu 697 [473]

The Dickson roofing operation in old congenital discations of the hip M O HEARY J Lancet 109 214, 13 The management of concerntal disclosuration of the hip in the Laping Drithopedic Clinic J School 22 2242 2242 is orthop Chr. 1018 1 or 1

So-called central luration of the hip J Zarevna, Pol ski Przegl chir., 1928 vii 228 Traumatie di location of the hip H D Sovyr sorre

J Bone & Joint Surg 1929 21 9'
A case of fracture of the cotyloid cavity with central hir
ation of the femur Boxpova Prog de la clin Madrid

1928 xv, 53

Management of fractures of the neck of the femur M

GROBELSKY Pol ki Przegl ch r 1933 vii 151 Backward dislocation of the pateils II Wagner, Med klim 1929 zuw 1347

An extension splint for the treatment of certain line tures of the leg. C. H. Mosery. Tri State Med. J. 1923 1, 0

Fractures of both bones of the leg J V Hyrror J Im VI las 1929 xcm 82 Fractures of the lateral tuberosity of the tibia with dis

placements of the lateral ments us between the frament. If R Cureurs 4 II Contey and G S Secretar Surg Corner. & Obst. 1929, album 196

Fracture of the ankle joint O W PARKER M use of Med 1929 at 6
Isolated fracture of the cuboid L. Royman Fortschr

a d Geb d Roenigenstrahlen 1923 xxxvm 369 Operati e treatment of malleolar fractures and talocu tal dislocations L.I. KOPRIVNIK Med Pre l. 1928 ii 34

Orthopedics In General

Thirty seventh report of progress in orthopedic sarries

B Wisson L T Brown W N Surrie Person N

G BOOMERS M S DUNDATE E F CARE J G KEPT

C H BUCKOLF OF PERKIN and A VAN DESSEL And

Sarg 1959 xvvi 169

Some orthopedic problems for the general practitioner

Ten years manufacture of artificial limbs in Germany following the war M ZCR Verru 1928 Lepteg Vowl Demonstration of a new Progodi prosthesis MAYER Zischr I orthop Chir 918 xLx 273 x corrective cock ap splint R E Brays J Boos & Joint Sug 7049 x 04

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Blood Vessels

Vascular cysts II Bir enberther Med Lab 1918 xuw 1044 Eroston of the neck vessels in scirlet fe er a recond of two cases J D Rolleston and W G Sear Bit J

Child Dis 1929 vrv 28: Trendelenburg s operation for pulmonary emboli m A li Mirve. Med Alia. 1938 vuv 1435 The Trendelenburg operation for pulmonary embolism.

J Drys Casop lek česk 1928 p 1339 Venous pressure W S Vinductor Anes & Anal 1928 vu 360

Leeches in phlebitis B S Tev beage. Nederl Tijl chr V Genesk 1918 Ixiu, 2803 A simple instrument for u.e in varicose ve n injection

A simple instrument for u.e in variouse ve n injection

J. Korschie Muenchen med Wohnsche 1918 lette

1458

The injection treatment of various veins R B CAT TELL New England J Med 1929 cc, 123 The injection treatment of various veins A F Bra-

rred Minnesota Med 1927 til 33 J Lancet 191).
slix 5
Lanco e veins their modern treatment by sclerosing in

pertions P K MURENY Brit. M J 1922 1 145
The treater rt of varice e veins by inje mons of sclerosing solutions S C Lyo s and C B Brew rer Jr New

Orleans V & S J 1029 Item 498
Inje tion treatment of variouse veins S Beartain
But M J 029 1 153

But M J 929 1 153 I nowe ulcer of the leg L W Suver Med J Aretralia 929 1 105

The ambulatory treatm at of leg ul e s and vancose vens F Merz Arch ! Derman 1928 cly 3!

Artenovenous ancurrem E F Hansay Surg Cla N
m 1928 Un; 1413

Artenovenous ancurism of the left superior thyroid vessels J M Mora. Surg Gynec. & Obst 1929 xlvm 123
Accursm of the arch of the aorta following a gunshot

mjury R Missey Deutsche Ztschr f Chir 1928 ccxi st 1
The symptoms of dissecting aneurism of the aorta L T Gacra Ann Int Med 1929 ii 658

Disceing aneurism of the aorta C \ Patrick and J F Taylor Lancet 1929 ccxv1 181

Ancunsm of the coronary arteries M Packard and H F Weesler Arch Int Med 1929 xliu 1 Bilateral ancunsm of the renal artery W J Carsov

hm J Surg 1929 vi 103 Healing of a carotid aneurism under a pressure bandage E Moss Muenchen med Wichinschr 1928 Exxv 1710 Observations on juvenile obliterating arteriti R ERECUES and P STRUCKER Brit J Surg 1929 xvi 496

Blood Transfusion

A a e of Schomhan Henoch s purpura. A Cas wufor and F ur Filter? Semana med 1928 xxxx 109. The treatment of purpura harmorrhappea with a report circustes. A A Illingua LT Niste Med J 1920 109 and the state of the

The hamoposetic effect of nuclear extractives in human sharmas N W Jones R I Interior O Larsell and ILT Nokes Ann Int Med 1929 H 603

Whipple's method in the treatment of the anamias J G ZAPIOLA Semana med 1928 xxxv 989

SURGICAL TECHNIOUE

D 1083

Leipzia Thieme

Operative Surgery and Technique Postoperative Treatment

Pre-operative treatment A Jirkásek Časop I k csk.

The significance of the alkali reserve in surgical patients E G Skoeld Arch f kim Chir 1928 cli 500 Mercurochrome and todane in skin disinfection W W

Scort J H Hill and M G Fills J Am M Ass 1920 ten 111 Tests of the most important methods of hand d sinfec

tion A A. SMORODINZERF Arch f kin Chir 1928 cli
The germicidal and hemolytic action of alpha brom

soaps A H Legerrii J Exper Med 1929 xlix 53 (cute infections of the face and neck G G Speer Med J & Rec 1929 cxvx 9

Sore fingers and such trivialities R KENN Lancet
1920 Carry 167
The management of phla management of phla

The management of phle monous infections in general Practice E Ornach Beihefte z Med Klin 1928 vxiv

Preparation of diabetics for surgery J T BEARDWOOD Js Wed Cun \ Am 1920 xu 1127
Mane ement of the complications of diabetes W J MALONY SOUTH W & S 1920 xc 1
The treatment of gangrene in diabetic patients R W

KEFON Illinois M J 1929 Iv 69

Come principles of minor surgery C B Morton Vir

Saia M Month 1920 Iv 217

Splenectomy for hamolytic icterus C FRIESDORF Mitt a d Grenzgeb d Med u Chir 1928 zli 127 Spontaneous rupture of the spleen in leukæmia W

LANCE Med Klin 1928 XVIV 1311

Mycloid leukæmia G W Norris and D I FARLEY
Med Clin N Am 1920 XVI 911

Discussion of a case of acute myeloid leukæmia with pentonitis T Sparchez and R I opa Cluj med 1928 ix 368

Human blood groups and individual blood differences
P Levini. Ergebn d inn Med 1928 veziv 111

F LEVIN Ergeon to the inheritance of blood group K II Bauez Klin Wchnschr 1928 vii 1588

Blood transfusion C Deptypt Vlaamsche geneesk tijl chr 1928 p 725 Considerations up on 200 cases of blood transfusions in surgocal affectations D DEL VALLE and A VODICE

Surgical infectations of DEE VALLE and A YOUNGE Semana m(d 1928 xxxv 987 Accident transfusion of leukæmic blood k Granfa A ta chrurg Scand 1928 knv 369 [475]

Reticulo Endothelial System

The reticulo-endothelial system and the gland of in ternal secretion G I ITTALUGA Rev mid de Chile 1928 by 925. The rôle of the reticulo endothelial system in strepto coccal infection N LOUROS and H E SCHEVER 1928

Lymph Glands and Lymphatic Vessels

Traumatic intrathoracic rupture of the thoracic duct with chylothorax C Γ Annuews Nebraska State M J 1920 xiV b

Homotransplantation in the li ht of the grouping of human blood E M Schwarzmany Zentralbl f Gynaek 1028 lu 2.03

1928 li 2,93
Skin tran plantation and disinfecting agents K KAMEYA
Zentralbl f Chir 1928 lv 2316
Plastic and asthetic surgery of the face W DOBRAN

The technique and results of different types of cosmetic

operations on the face R O STEIN Arch f Dermat 1928 clv 304

The indications for and technique of correction of facial

winkles E EITINE Wien klin Wichischt 1928 xli 1281.
Contractures due to burns treatment with free full thickness grafts and pediunculated flaps S L Koeif and A B KANAYE J Am M Ass 1929 xcii 277.
Drainage or tamponade in the pentioneal cavity I

Bigyt Orvosi hetil 1928 lxxii 971 The treatment of ingrown toe nail K Reschike Zen

The treatment of ingrown toe nail K RESCHKE Zer traibl f Chir 1928 by 2435

A modification in the technique of operation for ingrown to nail A M WINGGRAD J Am M Ass 1029 xcii 229 Continuous intravenous drop infusion I SCRWARZ

Med klin 1928 vuv 1548

The continuous administration of saline solution per rec
tum A II Proctor Indian M Gaz 1920 knv 4

Postoperative regeneration of blood R Becker and E Schuerz Beitr z klin Chr 1928 cxlin 637

The vital capacity of the lungs and postoperative pul monary complications J knowledge Casop lek (esk 1928)

Clinical and therapeutic experiences with thrombous and emboli m 4 Cars and Zentralbl f Gynack 1928 lit

The increase of postoperative thrombosis and emb oli m The end result in a case of embolism of the pulmonary

artery cured by the Trendelenburg of eration H STEGE MANY Muenchen med Wichn hr 1918 lesv 116, [476] I ostoperative infe tions E. Singer and H Engl. Deutsche Atschr f Chir 1928 e 11 301

The development, prevention and freatment of immediate postoperative complications II von Spenan Muen chen med Wehnschr 1928 kew 1239

Diet for surgical patients L REES and H Sciences Therap d Gegenw 1028 ltn 211 300 316

Antiseptic Surgery Treatment of Wounds and Infections

The effect of fluine antisepties on tissue gro th in tra-I W S BLACKLOCK But J Surg 1929 EVI 401 The effect of storage on the chemical and antheptic prop erties of silver protein solutions II WALES and C M

BREWFR J Lab & Clin Med 1929 xiv 300
A study of the comotic pre sure and hydrogen ion con centration of gentian violet and acriflavine solutions with reference to their stability and therapeuti value S C

AADECAVEYE J Lab & Clin Me 1 1929 71 322
A treatment of crysipelas J C TAPPEN New 1 nglan 1 Med 1920 CC 2 The relief of stasis in the inflamed blood vessels by means

of alkabes J H RELEYBOGEN Frankfurt Zischr f Path 1028 TXXVI 280 The treatment of leg ulcers and fistule with st onfium.

R HUMMEL, Zentra If Char south to 2724 Studies in strontium dres ings for leg ulcers granulating nounds and fistule R HUMBER and F LARREST Muen

chen med. Wchnschr 1928 hvv 1553 Streptococcal probl ms in surgery and the result of serum therapy Il LILLIAN Beitr 2 klin Chir 1928 caliv

Anti-staphylococcic effects of the intra arterial injection of certain dies Zung Dau Zal Ann Sur ixteva o t Carcination a sinst tetanus with tetanus anatorin

ZOELLER Arch Med mil 1928 INCHES 6 (476)

Anresthesia

Pr anzethetic medication M WALLEASTEIN J Med Cin ingati 1020 1x 516 The diabetic patient and his condition preparatory to anasthesia L P Jr un bies & bal 192; tui 6

The all or none law of narcosts and the entique of Hars Unit rates G MANAFELD Arch f exper lath u Pharmalol 1928 exx : 258 Studies in the applicability of the a of all-o none in

anasthesia to the regetative n riou system 1 H CHT Arch I esper lath u Pharma of 10 8 cr x1 189
Anasthe ia for empled chudren F I center Cale formua & Went 1 ed 1929 xxx 41

Inhalation or injection narcosi The d velocit at of the specialty of anasthesia in Germany L II custor ines & inal 1929 vin 20

Anasthe is induced with apparatus E State On o képzés 1928, sviit The development of irritative vapors during drop ther

anasthesa & Gererz Bear z klir Chi 1928 cdi 1, 713

Codapse and narcosis The determination of the rolume of circulating blood in other avertin and a ctylene sneethe 12 and its significance II FRANKEN and A Schutz MEYER Narkose u Inges 1929 1 437 The heart and chloroform anesthesia I Experients on

normal animals II The influence of the parathyroids I Trewan Ztschr I d ges erper Med 1928 kul t

Venez angesthetira particula ly gas CEM Varlose u Anasth 1928 2, 369 I spenences with nitrous onde anasthe in F Hesse

Schmerz 928 II 33 Some details in the administration of gaseous and thetes for abdominal surgery E I McKessov Anes & Ansl

1929 1711 54-Carbon dioude a new therapeutic agent S Rorpey Sienska Lachartidn 1929 1033

The anaesthetic properties of carbon dionie C D I rake and R M Waters Anes & Anal 1929 VIU 17 Inhalation and colonic anasthesia I T Givernier Am I Sure 2028 v cai

Endotracheal angesthesia I W Macini Proc Roy Soc Med Lond 1918 tru, 83

Rectal eth r-oil drop an esthesia H Marri. Zentra V Chir 1928 lv 1100 I erno ton t valight sleep HARTING Schmerz 1928 t

Experiences with intraverous an esthe is with periodice Il Signage Muenchen med Schnicht 1928 len

11 8 An unexplicable death following persoction and this a W hare Muenchen med Wehnschr 1928 hav 1555

Lerent progress in an esthetics in Germany with peculi con silerat on of avertin and pernokton anasthesia H Alleran Anes & Anal 1020 vill 21 Avertin anasthesia W Avscrievez Zentralbi f Chir

1928 1 2371 a colon tube for the admin stra ion of averum R. Bra MELSTER Zent albit f Chur 19 8 lv 2592

The action of avertin or the circulation Downess Zentralbi i thur 928 lv 2632

Chnical and animal exp timental studies on avertinantethe 12 K B Bevper Bestr z klas Chr 1913 calm, loid base y lations during a ertin anæithesia. Con

tribution on the pathological physiology of a e un anas-thesia. I Wyser and II Ft. 5. Deutsche Zischr I Chir 1028 CCX1 281 1 death under avertin angethesis P Congorni. Zen

tallif Chir 928 lv 1231 The p eduction of of steer cal and urrical anes besta by the use of barbitume acid compounds] H Freize And

& Anal 1020 VII 40 he e in thods of controllable spinal anathesis. The use of Pitkin's method in 100 cases J L DeCorrey

Im J bar 1928 v 023 Spinal arasth sia. An expenence of twenty four years.

If II Ban occ. Am J bu g 19 8 v 57!

Controllar le spinal and the in. G P Priva. Am. J

Lluminat on of dangers of spinal amesthe is G Libert lm | 5urg 1928 v 61

Po toperati e phaces of p nal angathesia F (Mc Cognit & Am J bu & 1928 v bo

I os able complication with spinal anasthesia. Their recognition and the mea uses raployed to prevent and to

combat them C H L AN Am J Sa g 1923 v 181 Spinal and thesia with spe ial eference to its use in sur gery of the had reck and thorax, H. Lostes im J

Surg 1928 V 254

Sound and thesia in obstetrics S A Coscrove Am I Surg 1028 v 602 Somal annithesia in orthopedic surgery F H ALBER

and SO FRY Am I Surg 1928 v 608 Somal anasthesia in kidney and ureteral operation H

S Jack Am J Surg 1928 v 611 Spinocaine in spinal and th sis \ II Go E dun M As 1 1020 vv 20 Lumbar nuncture technique L F Sisk Am I Sar

Lumbar anasthesia Remarks based on 1 100 cases J T Case Am J Surg 1928 v 615

Lumbar anasthesia in gynecology H Growin ki Guickel polska 1928 vii 352

Lumbar anasthesia induced with SF 147 O WINTER stery Narkose u Anæsth 1928 1 419 Braun's prevertebral and thesia Moons I de chir et

Ann Soc belge de chir 1029 p 176 Paravertebral ancesthesia in urology H Webenhors Narkose u Anæsth 1928 1 423

Local anzesthesia J C HEMSLEY Med J Australia Anaesthesia local versus general D PFTERSON J Kan

tas M Soc 1929 XXX 4

The preparation of solution for local anx thesia G Disciner Klin Wehnschr 1028 vii 1838

A few practical points influencing the safety an I the suc cess of local ance thesia in the hands of the general surgeon S R MAYEINER I Lancet 1929 the 13

The action of local angesthe is and of operation under local angesthesia on the alkali reserve of the blood. M

KAPPI and G SOIKA Schmerz 1028 II 13 Local anæsthesia in upp r al dominal surgery C A

PANNETT Lancet 1020 cctvi 271 The influence of local and lumbar anæsthesia on the aci I base equilibrium \ Antonin Casop lek ce k 1928

n 1078 And thesia of the brachial plexus H HILAROWICZ Zen tralbl f Chir 1028 lv 2450

Surgical Instruments and Apparatus

I new cy-to cope for blad lers of small canacity H HARBLER Zentralbl f Chir 1028 lv 1501 A new diathermy electrode for warming the prostate

LANDT D utsche med Wchnschr 1928 hv 1389
The electromagnet in surjety H L Whale Brit M I 10 0 1 68

PHYSICOCHEMICAL METHODS IN SURGERY

Roentgenology

The roentgen literature for 1927 Author and subject in der Patent literature H Goont 1028 Stuttgart Finke Radiology medieval and modern G W C KAYE Brit J Radiol. 1029 11 3 The future of radiology R E BARR Texas State J M

1920 EXIV 640 The future of medical radiologists L A POWDLY Brit J Radiol 1028 1 447

Modification of an electroscopic charging device R B Tarr Radiology 1929 XII 65

Criteria for the design of a standard ionization chamber G FAILLA Am J Roentgenol 1929 xvi 4 A simple method for determining the thickness of bone in the roentgen picture I BETTMANN Zentralbl f Chir 1928 ly 2301

The radiological diagnosis of hydatid infection C C ANDERSON Brit J Radiol 1928 1 428 [478] The practical applications of geometric principl's in crossbeam radiation J van Roojev Brit J ladiol 1025 1 454

The conden or dosumeter and its use in measuring adia tion over a wide range of wave lengths O GLAS ER U V PORTMANN and V B SETTZ Am J Roent enol 1928 1478]

companson of practical methods of mea uring rountgen tay quality for therapy F II OUIMBS Am J Roent to 1929 xxi 64 An efficient compact roentgenolomcal chest unit 5 L

HARREN Am J Roentgenol 1929 XXI 9 Treatment records J I HERRICK Radiology 1920 Analgesic properties of the X ray L J CARTLE Public

Ogy 1929 xil 27 The biological aspects of roentgen therapy H HOLTHU

Reenten therapy of surgical tube culosis II HUECK Irradiation of benign and malignant tumors F HEIMAN 1923 Berlin Stilke

The massive and hypermassive radiation in the treatment of skin cancers W. A. Fvans and T. LEUCUTIA Brit J Radiol 1928 1 390 Ob ervations on the value of necropsy stu lies to roent genology W I MAROLIS Texas State I M 1920 XXIV

Radium

The therapentic u es of radium emanation I Mute Med I & Rec 1020 cvuv 85 Comparative notes on radon amplants A Sortand W.

E Costolou and O N Meland Radiology 1929 xii 45 A shii rule for radon dosage calculations W V May NEORD But J Radiol 1928 1 467

The use of radium in malignancies and certain gyneco logical conditions T W Holars New Orleans M & S 1020 IXXXI 477

The use of radium in the treatment of cancer I Gerber New En land J Med 1929 cc 199

Radio active determination on postmortem specimens taken f om one exposed to radioactive material over a prolonged period H H BARKER Am J Roentgenol 1929 XX1 31

Miscellaneous

A contribution to biophysics W II Love Med 1 Australia 1929 1 34

Massage as a therapeutic agent M B JARMAN Vir ginia M Month 1920 1 731 Dosage in heliotherapy a plea for laboratory control.

I I EARP I Am M As 1020 SCH 312 Sun treatment of perstonits A ROLLIER Tytrapulmon

ale Tuberk 929 n 129 A broad ast talk on the ultraviol trays S Rt s Brit

J Radiol 1928 1 487 The present po ition of ultraviolet I ght therapy C B HEALD But M J 1929 1 94

Ultraviolet is ht and skin cancer G M FINDLAY Lancet 928 cerv 10 o Note on diathermy W & Hughe Med I Australia 1028 11 755

Thermogenesis by radio frequency currents A Somand and A II WARVER California & West Med 1929 xxx The use of electro urgery in the treatment of cancer G W TAYLOR New England J Med 1929 cc tto

Physical measures as an adjunct to surgery W Martin J Med Soc V Jersey 1928 xxv 651 I by cal therapy aids in fracture and orthopolic cases

MISCELLANEOUS

Clinical Entities-General Physiological Conditions

Congenital deformities W & West J Oklahoma State M Ass 1929 XVII 10 Acadental horse kick in uries C Vidakovir Monat

sschr ung Mediziner 1928 u 27. General pathology the treatment of wounds W Front ER Fortschr Zahnheil 1928 1 26

The kidneys and excretion of the amino acids 'U ARECH Bestr z klin Chtr 1928 cxli 243

Handbook of normal and patholorical phy tology in cluding experimental pharmacology A Bethe G von Cerculary G Empley and V Ettrager Vol VI Blood and lymph 1928 Berlin Springer

Hardbook of no mal and pathological physiology with a consideration of experimental pharmacology A Berme G Bergain G Empley and A Filinger Vol XIV The physiology of reproduction development and growth Part 2 Metaplasia and tissue growth B FISCHER WASSELS and E ALESTER 1928 Berlin Springer

A comparison of the calculated and determined osmolar correctration of normal serum the base binding power of proteins and the determination of the total base D C Darrow and A F HARTMANN Am J Dis Child 1920

Studies of calcium and phosphorus metabolism \ \ study of the bone trabeculæ as a readily available reserve upp yof calcnum W BAUER J C AUB and F ALBRIGHT I Exper Med 1020 xlix 145

The cholesterm metabolism in man M BUERGER Ergebn d inn Med 1928 xxxiv 583 Surgical problems in metabolism II Feriz Deutsche med Wchnschr 1928 hv 1407 Miners cramp E M BROCKBANK, But M I 1020

A white nævus" of the ocular conjunctive in a child

and a dark blue nevus of the forebead F P WEBER Brit J Child Dis 1928 XXV 276 Active congestion of the stomach as an explination of the mechani m involved in the gastric harmorrhage of

solenic animus Presentation of four cases with himmorr hage before and after spienectomy T & MILLER and L M LIEBERIAN Med Clin N Am 1929 xii 001 Regulation of the blood rea tion in gastric and bile

passage di ease J Sejitar. Casop lek cesk 1928 p 1080

Studies on the sen stizing properties of the bacte sophage C W JUNGEBLUT and E W SCHULZZ J Esper Med Diabetes and infection H J SPENCER N kork State

I M 1929 EXIX 5 The preparation and management of the diabetic subsected to amputation for gangrene B C McManov R SCHARF and W M BARTLETT Sur Gynec & Ob t 1929 xlvut 123

The newer conceptions of surgery in the diabetic J \ REED Surg Gynec & Obst. 1929 xivat 44 The relation of liver and gall-bladder disease to diabetes with a report of liver function tests and cholecystograp by in a group of cases of diabetes and alimentary glycosura B D Bowev 5 L VIUGHAN and E C LORYS Bull Buffalo Gen Ho p Buffalo N lork 1923 vi 41 [430 The action of hormones h Wislansel Guelol

polska 1928 vii 420 The morbus asthemous (Spiller) in surgery V Mary

INGER Dryosképzés 1928 vvii 261 Individuality and resistance of surgical patricts F

NINI IN Cason I'k cesk 928 p 1081 The effect of dividing vessels and nerves on regeneral e processes in tissue S Horrycut Trans up path. Soc

1028 XV1 218 Surgical a pects of a few tropical di eases G C SHAT

New England J Med 1929 cc 229 Experimental contribution on the development of po 1 traumatic hard codema S Fujirisuva Acta S hole med

Lioto 1928 x 491 Clinical and pathological study of sweat gland tumors

RISAK Zentralbl f Chir 1928 lv 2'41 Cystic tumors of the sweat glands I Ro ENAK, On aképzes 1918 xviji

Enchondromats of the subcutaneous tissues D G LD-Enchondromats of the 1928 is 23 9
MANY Zentralbl f Chir 1928 is 23 9
Many Zentralbl f Chir 1928 is 23 9

Frankfurt Ztschr I Path 1928 xxxvi, 383
Enormous hygroma of the buttock H Konile Deut sche Zischt f Chir 918 cctt, 189
Lymphangioma circumscriptum. J H. T Davies Proc

Roy Soc. Med Lond 1929 XXII 353 An unusual tumor R L PATER OV But M J 1979

Krukenberg's tumor M Wojrczewicz Gnekol pol ska 1028 vii 410

Benign giant-cell tumors A comparative histolorical study 4 VOY ALBERTINE 928 Leipzig Thieme The combination of ambine dyes and radiation in the

treatment of tumors J C MOTRAM Brit. M J 1917 The quiescence of irradiated tumor cells H CHAMBERS

and S Russ Lancet 1979 cctv1 71 The problem of the malignancy of tumors F BLUMEY

THAL Seuchenbekaempf 1028 V 247 Experimental studies on the relations of the malignant tumo s to the nerves Y KIMURA Trans pp path. Soc.

1028 XVI 241 Certain clinical aspects of the malignant lymphomata

II Jackson Jr New Lugland J Med 1929 ct

Cancer cure or console II J Mayo J Med Cie cinnati 1928 ix 463 Lancer Ferment theory and treatment. J. L. Suiw

MACKENER Internat J Vied & Surg 929 xlu 23 Carbohydrate metabolism in cance D JACKSO Ter

denocarcinomatosis in a gr l aged six years G U Lyrov J S Klumpra and J W Fercusov Am J Dis Child 920 xxxvii 134

Some of the difficulties in the diagno is of cancer of the int roal organs J M Swav Ann Int Med 1929 th Raymond 5 di ease associated with cancer of the stomach T I Brancht and E P Poulton Am J Med Sc 1928 ckm 654 [480]

Blar Bell's method of treating cancer with lead salts C Taria. Rev med de Chile 1928 1v1 995 Intravenous lead in the treatment of cancer R T PET

rif Illinois M J 1929 by 9
Advanced cancer treated by colloidal lead a report of
ninetern cases B F Schreiver and R C Wende Surg

Gyne & Obst 1929 xlviii 115 Statistical and chinical study of cases of inoperable car mona handled at the Hochenegg from 1904 to 1926 F From and O Paner. Arch f klin Chir 1928 ch 261

Sarcod of the hand resembling granuloma annulare H MacCorne Proc Roy So Med Lond 1929 xxxx 34 Rorntgen sarcoma H J Alius Beitr z klin Chir

Studies in the action of chemicals on rat sarcoma L Drawn and F Kornicsberger Deutsche Zischr f

Chr 1928 cct 417
Primary sarcoma of the inguinal region cured by extirpa
ton B Garrica Ars med 1028 iv 435

General Bacterial Protozoan and Parasitic Infections

Agranulocytosis (Schultz) and the agranulocytic symptom complex W C HUEPER Arch Int Med 1928 vilu

480 A fatal case of pyzmia resulting from an infected finger L H Nonney Canadian M Ass J 1929 XX 40

Minor hand injuries resulting in death G G Corber Canadian M Ass J 1929 vx 40 The relationship of gastro-intestinal and respiratory dis

oders to focal infection G R Pirite Canadian M Ass J 1920 xx 4 herpenmental study of anthravinfection 1 The sc

bon of the desentive juices upon anthrax bacilly 2. The an Browsin between bacillus colo and bacillus anthracis. C Koman and D. Schranze. Sperimentale 1938 Event of Jamdice in gas bacillus infection clostridium welchin II. T. Marshill and T. F. Brimffeld. Virginia M. Month. total by 220.

The present status of the leprosy problem in our country (treetina) P L Balifia Semana med 1928 txxx

The occurrence of poliomyelitis following tonsillectomy

L Alcock and E H LUTHER New England J Med
1920 to 164

Traumatic tetanus and a case of cured head tetanus

J Eiserr Med Khin 1928 xxiv 891

Infection improvement.

Infection immunity and cell reaction in tuberculosis IP NOLEN Med J & Rec. 1929 CK. 17 28
Tuberculosis as an industrial accident J B HAWES

AUGUSTA AS AN INDUSTRIAL CONTROL OF THE STATE OF THE STAT

Heat Med 1928 xxx 393 [481] Attnomycosis in Louisiana H B Cessner New Or Fais M & S 3 1929 lives 469

Changes in granulation tissue following cauterization with silver nitrate. If Hellings Deutsche Zischr f. Chir. 1928. CCI. 22

Ductless Glands The intenor lobe of the hypophysis and the ova y L Firs Wien kim Wehnschr 1928 th 1225

Chincal and pathological study of diseases of the hypophysi and a consideration of the relationship between the hypophysi and the genital organs. H PLIYER Deutsche med Wichneicht 1028 by 1450.

Experimental studies on the relation hip between the hypophysis and other inner ecretory organs. An experimental contribution on the question of the relationship between the hypophysis and the renital organs. L. P. Popr.

JASCHUK Strahlentherapie 1928 xxx 65
Pineal and metamorphosis The influence of pineal feed
ing upon the rate of metamorphosis in frogs J Addain

Ing dport the trace of incomposition in 1705 of 1800 Art and F E Chidester Endocrinology 1928 xii 791

Findocrinology II Bernitarpt Deutsche med Webischt 1928 hi 1882 1423

Studies of the endocrine glands VI Plunglandular syndromes A W Rowe and C H LAWRENCE Endo

Endocrine influence on gastric secretion with special reference to hypothyroidism M D Levy New Orleans M & S I 1020 Ixxvi 48

A note on the relation of light to the action of parathy road extract H Ro etto and L M Petrillo Endo crinology 1928 xii 97

The thyroid hormone and cestrus M Reiss and S
Perfery Endokrinologic 1928 ii 18t
Certain tumors of the thymus A Matras and A Price

SEI. Bit r 2 path hat u z alig Path said A FRIE
SEI. Bit r 2 path hat u z alig Path said A FRIE
Turther expenences with menformon in its action on the
mammany gland O O FELLERE DUSTSche med Wich
schr 1028 by 922
Turther expenences with menformon in its action on the

mammary glands L I AQUEUR Deutsche med Wehn schr 1928 hv 923 Ovarian and placental hormone effects in normal im

Ovarian and placental hormone effects in normal immature albino rats (T Golders and F T RAMBEZ In locinology 1928 xii 804

Surgical Pathology and Diagnosis

Lyaluation of the white blood-cell picture with especial consideration of the relative and absolute leucocyte counts H Schaeper Arch f Gynaek 19 8 cxxxiv 650

A study of the structure of ad po e tissue in the adult and its behavior in inflammatory processes G FAVILLI Sperimentale 1928 Exxii 629 The clinical limits of ectoscopy (visual diagnosis)

F Wei's Jahresk f aerzell Fortbldg 1928 xit 40 Experimental studies upon the genesis of cicatricial con necti e tissue G Favilli Sperimentale 1928 kxvu 60

Tobac o amblyopia H VI TRAQUAIR Lancet 1928 ccxv 1173

Experimental Surgery

A handbook of methods of hological study Exit As PRHALIEN. Methods for the study of the function of separate an mal organs Ft 3B % 5 Secretim A BICLET and C ANA TWAN. Morphologica and expensional studies of the owny J Hirr Method of studying the soluted endocrine gladds G L SCHAWERS I PERSTATION and standardization of parathyrod hormones J B Choulter 1908 Ecfin Urban and Schwarzenberg.

Morphine med cation as a method of delaying a physia tion I I CHILLINGWORTH and \ CANZANELLI J Lab & Clin Med 1929 ti 291

In experimental study of certain visceral sensations I.
P. POULTON Lancet 1928 cctv 1223 [481]
The effect of ether anasthesia and shock on the calcium

of the blood W. C. I MERSON J. Lab & Clin Vied 1928 UV 195 [482] Hospitals Medical Education and History

Hospitals of sixty years ago W W KEEV Mod Ho p 1929 XXXII 49 How the social service departm at of the hospital sup-

plements treatment, M T Mackachery Mod. Ho p. 1028 xxxi % [482] Medical education L Porrur California & West Med

1929 XXX 1 The evolution of surgical teaching in the United States A OCHSYER South M I 1020 TUI 4

The company of barber surgeons and tallow chanders of Newcastle-on free F C Pratts Proc. Pay So., I Lond. 1020 XXII 28

Avi enni the prince of physicians J B Diw ve Med. J Australia 1928 ii 751 A textbook of surgery Ed 6 C. Garre and L Buch

ARD 1928 Leip is Vogel Important problems in surgery M Krascunga Dut sche med Wchuschr 1928 hv 1541

The attitude of the prore sive physician toward necrop sies R. G Miles J Lab & Cha Med toug ziv 299

International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

EDITORS

FRANKLIN H MARTIN, Chicago
SIR BERKELEY MOYNIHAN K.C.M.G., C.B. Leeds
PAUL LECENE Paris

SUMNER L KOCH, Abstract Fditor
MICHAEL L MASON, Assistant Editor

DEPARTMENT EDITORS

EUGENE H POOL General Surgery
FRANK W LYNCH Gynecology
JOHNO POLAN Obstering
CHARLES H FRAZIER Neurological Surgery
F N G STARR Abdominal Surgery
CARL A HEDBLOW Chest Surgery

LOUIS E SCHMIDT Genito-Urinary Surgery PHILIP LEWIN Orthopedic Surgery ADOLPH HARTUNG Roentgenology HAROLD I LILLIE Surgery of the Ear L W DEAN Surgery of the Nose and Throat ROBERT H IVY Plastic and Oral Surgery

CONTENTS

1	Index of Abstracts of Current Literature	111 14
11	Authors	18
ш	Editor s Comment	×
IV	Landmarks in Surgical Progress	509 512
v	Abstracts of Current Literature	513 570
VI	Bibliography of Current Literature	571 596
VII	Volume Index	1 777

Editorial Communications Should Be Sent to Franklin H Martin Ed tor 54 East Erie St Chicago
Editorial and Bus ness Offices; 54 East Erie St Chicago Illinois U.S. A
Publishers for Great Britain: Bailliere Tindall & Cox 8 Henrietta St Covent Garden London W.C.



CONTENTS-IUNE, 1929

LANDMARKS IN SURGICAL PROGRESS

500

522

522

EXTIRPATION OF THE PAROTID-GEORGE McCLELLAN Irving S Cutter M D Sc D Chicago

ABSTRACTS OF C	UR	RENT LITERATURE	
SURGERY OF THE HEAD AND NECK		PIGEALD H The True Causes of Fatal Meningeal Hæmorrhage in the Newborn Annsportas and Desvillée Several Cases of	54
DUFFORMENTEL, L and DARCISSAC M An Attempt to Treat Inferior Retrognathism	513	Meningeal Hæmorrhage of the Neyborn Fol- lo ing Spontaneous Delivery	54
Eye		Spinal Cord and Its Coverings	
DUKE ELDER W. S. and DUKE ELDER P. M. A. Histological Study on the Action of Short Waved Light upon the Fye with a Note on		BURELY B. T. Spinal Cord Decompression In dications and Results CHIENDER Z. G. and VODOGULYSKAYA S. V. A Case	51-
Inclusion Bodies	513	of Spinal Arachnol litis Operated upon Tvice	52
Ear			
Davry D W Syndrome Complex Menière	213	Sympathetic Nerves	
Note and Sinuses		CAPPELL D Γ Retropentoneal Ganglionic \(^{1}eu roma	520
HAYSEL, F K. Mahgnant Tumors of the Naso	514	Magliulo A The Effect of Periarterial Sympa thectomy on the Taking of Autoplastic Skin Grafts	56.
REAVES R G A Comparative Study of Chronic Sinusitis with End Results Folloving Intra hazal Operations	514	Miscellaneous	
Overcard A P Roentgenograms of the Sphenoid and Ethmoid Sinuses the Oblique Method	565	DANISCH F and ADDELMANN E A Malignant Thymoma with a Leculiar Metastasis into the	
Mouth		Central Nervous System in a Child Three and One Half Years Old Also a Contribution on	
Cancer S Radium Therapy of Cancer of the Buccal Cavity	514	the Chinical Picture and Patholo _o ical Anatomy of Tumor Metastasis by Way of the Cerebro- spinal Fluid	521
Pharynx		GRANT F C The Rel ef of Pain by Nerve Section	
MANGABERNA ALBERNAZ P The Etiology and the Etiological Treatment of Plant Vincent Angina	514	Galli G and Polacco E Experimental Physio pathology of the Stomach as Related to the Nervous System	52
Reck	3**		
		SURGERY OF THE CHEST	
WAGNER JUAREGG J A Preliminary Report on the Results of Goiter Prophylaxis	514	Chest Wall and Breast	
Eins S M. A Contribution to the Study of the Basal Metabolism in Gotter at I uberty	515	CHEATLE SIR G L The Interpretation of Breast Hi tology	52
Matri J L Thyroto icosis from the Interpist s	4		

tınım

516

SURGERY OF THE NERVOUS SYSTEM Brain and Its Coverings Cramial Nerves

SEENER, H. A. The Ongin of Acoustic Nerve

Trachea Lungs and Pleura

ROZINI M Pulmonary Tuberculosis and Uni-lateral and Bilateral Pneumothorax in Preg

LILIENTHAL, H and AMBERSON J B Unilateral

Pneumothorax the Behavior of the Medias-

INTERNATIONAL ABSTRACT OF SURGERY

		TINDING OF SUNGERI	
DOLLY F S and MLERE E R The Effects of Large Clo or Blatteral I seumorberax on Tho race Lymph Flow CHURCHILL E D The Stram' on the Collatera Lung in Collapse Therapy KLYE B S and Beacas S S Pulmonary Ab LIVE B S and Beacas S S Pulmonary Ab LIVE B S and Beacas S S Pulmonary Ab LIVE B S and Beacas S S Pulmonary Ab LIVE B S and Beacas S S Pulmonary Ab LIVE B S LIVE B S S S S S S S S S S S S S S S S S S	522 1 523 523 523 523	Liver Gall Bladder Pantress and Spleen Liveograf S. Four Cases of Abress of the Line Following Appendicts Checkward G. Violipple Midnay Abserts es of the Checkward G. Violipple Midnay Abserts es of the Courty and Case of the Courty of the Courty For Bandous Cholecystite For Calculus Cholecystite Liamstea J. Bracettern-Detect D and Onesco G Lancer of the Amphilo of Adoption of Violence Foresteady Checkward Checkwa	5 33; 5 53; 5 53;
Heart and Pericardium			
COTER E C and BECK C S The Present Status of the Surgial Procedures in Chronic Valvulate Disease of the Heart Final Report of Al Surgical Cas v Esophagus and Mediastinum I REDENMAN M and ZINN W F	524	Uterus Basser A and Ponceoux, P. The Trainage of Metrus by Intramuous and Subserces in jections of Vaccine Local Vaccinations of Vaccine Local Vaccination of United and Delivery of a Large Fibromyona Varva O The Early Deagnoss of Cancer of the Java O The Early Deagnoss of Cancer of	53 53
Peptic Ulcer of the (Esophagus	524	Uterus by Means of Smears	536
Miscellaneous		GELLHORN G Syphilis and Cancer of the Uterus ALMANN R. Carcinoma of the Uterus after the	53
DANISCH F and ASPELMANN E A Malignant Thymoma with a Peculiar Metastasis into the Central Nervous System in a Child Three and One Half Years Old Also a Contribution on the Clinical Picture and Pathological Anatomy of Tunnor Metastasis by Way of the Cerebroa		Menopause Schweiderund O A Case of Primary Polymor phous Sarcoma of the Uterus with Various Metastases	5.57
spinal Fluid	320	Adnexal and Periuterine Conditions	
GRAHAM E A The Significance of Changed Intra thoracic Pressures	525	ORR J L An Unusual Case of Tube-Ovarian Inguinal Herma	538
SURGERY OF THE ABDOMEN Abdominal Wall and Peritopeum		CALLHAN W. P. SCHILTZ F. II. and HELLWI C. A. Frimsiry Carcinoma of the Fellopian Tubes As ociated with Tuberculosis SCHILT P. Experimental Studies on Injury to Off pring from Roenigen Irradiation	53S
ORR J L An Unusual Case of Tubo-Ovarian Inguinal Hernia	538		
ROLLIER A Sun Treatment of Pentonitis	56S	OBSTETRICS	
Gastro Infestinal Tract		Pregnancy and Its Complications	
Galli G and Polacco E Experimental Physio- pathology of the Stomach as Related to the eccoustystem	3 ²⁵	RONZINI M Pulmonary Tuberculosis and Lini lateral and Pilateral Pneumothorax in Preg- nancy Lyon E C Jr. Anamia in Late Pregnancy	539
RADICE L The Physiopathology of the Gastric Secretion in a Small Stomach without a Pedicle	526	Evals W Severe Anaemia of Pregnancy and the	539
DAVID \ The Etiology of Ulcer of the Greater Curvature	320	HESTRAN A Two Cases of Secro is of the Renal	539
WILKIE D P D Gastro-Enterostomy	527	Cortex in Touco is of Pregnancy Falls F H The Diagnos; of Fetal Deformities	
BASTIANELLI P The Results of Resection of the Stomach for Gastric and Duodenal Ulcer	27	FALLS F H The Diagnosi of Fetal Deformities in Use o Sieger F The Problem of the Cervical Placenta	539 539
WILLER C J A Study of 343 Surgical Cases of Intestinal Obstruction SMITHLES F WEISSMAN M and FREMMEL F	528	BROWNE F J and DODD G H Further Expen	040
Tuberculous Enterocolitis	30		
HELLSTROM J Cholene Acad Enterofiths	18c	Labor and Its Complications	
Sto E H B Chronic Ukerative Cohtis Mei Ev \ The Injection Treatment of Hæmor rhods	531	Sixty	541

REZUCUSA N A Case of Spina Bifida Occulta and Rupture of the Symphysis of the Pubis	541	SURGERY OF THE BONES JOINTS, MUSC TENDONS	LES
Coverage A Porres L and DICONNET L Late Postpartum Hæmorrhages Indications for		Conditions of the Bones Joints Muscles Tendons	Etc
Ther Treatment by Immediate Hysterectomy	241	Diversex R. L. Anterior I oliomyelitis a Study of the Acute Stage with Special Reference to the Early Diagnosis and Treatment	35 2
Purperium and Its Complications		Mac Alsland W R Deformity in Infantile	33-
AUTERICE Grave Puerperal Infections Cured by Hysterectomy	542	Paralysis Its Prevention and Correction JUENGLING O Osteitis Tuberculosa Multiplex	552
Kewborn		Cystoides 11 o a Contribution on Tuberculid of Bone	553
Picrath H The True Causes of Fatal Meningeal Hamorrhage in the Newborn	542	ALBEE F H The Principles of the Batteriophage Applied to Osteomy clitis	553
experience and Dervillée Several Cases of	31-	DURMAN D C Myeloma of the Spine	554
Meningeal Hæmorrhage of the Newborn Fol- lowing Spontaneous Delivery	542	PITTON E An Enchondroma of the Right Trans verse Process of the First Lumbar Vertebra Revealed by Roentgen Fxamination	554
GENITO URINARY SURGERY		GUILLAUME LOUIS The Anatomical Lindings in a Case of Rupture of the Quadriceps Tendon HESELER O The Pathogenesis Clinical Aspects	554
Adrenal Kidney and Ureter		HESELER O The Pathogenesis Clinical Aspects and Treatment of the Flail Anee in Its Relation to the Collateral Tibial Ligament	
RESTRAN A Two Cases of Necrosis of the Renal		MOUCHET A Metatarsal Epiphysitis	555 555
Cortex in Toucosis of Pregnancy Ibers J B Adenoma of the Adrenal Cortex	539	province in the second appropriate	333
ADG E S The Urea Tolerance Test in Index	544	Surgery of the Bones Joints Muscles Tendons	Etc
Mayes C B Renal Function in Undated Di	544	CALISSANO G Interposition of Fixed Cartilage Between Bone Stumps for the Purpose of I ro-	
	545	ducing a Nearthrosis	555
Fry B The Results of Twelve Operations for the Punful Syndrome of Hydronephrosis The Pre		GALEAZZI R The Treatment of Scoliosis	556
ponderant Role of Abnormal Arteries Le we Fry and Coloas Disturbances in the	545	KIEINBERG S The Results of Spine I u ion for Scoliosis	5 6
Evacuation of the kidney Pelvis and the Re-	4 5	Fractures and Dislocations	
EXERCIPIER H L. and Danmorner H C. Canadla	440	Wilnen H P Treatment of Fractures with the	
HEALINE R B A New Method of Personal-hand	540	Equilibrated 5 vinging Traction Apparatus SILEVERSKIOLD N The Treatment of Fracture	557
The Three Cases		Di locations of the Shoulder Joint	58
JECK, H. S Sephrectomy and a Count A the	547	LIJASON I L Fractures of the Clavicle	558
Renal Tube colores	547	THOMAS T T A Contribution to the Mechanism of Fractures and Dislocations in the Flbow Re gion	0
Occessed Y F and Dillon T G Ephedrine Controlled Spinal Anasthesia		EDWARDS H and CLAYTON L B Fractures of	558
SERRA C Tenters Printed Inches	547	the Lower Lnd of the Radius in Adults Maglitulo A Fractures of the Base of the First	559
Effects Particularly with Reference to the Production of Uramia	548	Metacarpal Bone with Special Reference to the Mechani m of Their Production	559
Textrace II R Ureteral Activity in Some Pathological Conditions Studied by the Graphic Manometric Method	548	Music V Dislocating Cova Valga Clinical and Etiological Considerations	56a
Bladdan W			
Bladder Urethra and Penus		SURGERY OF BLOOD AND LYMPH SYSTE	MS
the Bladder Malignant Disease in Diverticula of	550	Blood Vessels	
Modratean S W Keeping the Patient Dry after Vesical Operations	33-	FEY B The Results of Twel e Operations for the	
	550	Painful Syndrome of Hydronephrosis The Preponderant Rôle of Abnormal Arteries	545
Gental Organs		Gaglio \ Terminal Forcipressure of the Arteries	561
FLANDELN P Posterior Urethroscopy in the Diag no is and Treatment of Chronic I rostatitis		RAILSBACK O C and DOCK W Erosion of the Ribs Due to Stenosis of the Isthmus (Coarcta	
Chronic I rostatitis	550	tion) of the Aorta	chi

INTERNATIONAL ABSTRACT OF SURGERY

Divide Transfusion Lives Presument of Surgery and the Surgery Fractional Surgery and Technique Postoperature Treatment of Surgers and Technique Postoperature Treatment of The Surgers and Technique Postoperature Treatment of The Effect of Penasteral Sympa Micietics A. The Effect of Penasteral Sympa Micietics Care of a Severe Case of Penasteral Sympa Micietics Care of a Severe Case of Penasteral Sympa Micietics Care of a Severe Case of Penasteral Sympa Micietics Mici		
Blood Treasturane Lives Premis in Late Pregnancy Lives N Severe Amenia of Pregnancy Doublet No. 8 C Jr. 8 Amenia of Pregnancy and the Isterpremis of Surgeral Infections SURGICAL TECHNIQUE Operative Surgery and Technique Postoperative Routh Older The Effect of Perastenal Sympa Manusch Technique Postoperative Technique No. 8 American Technique Postoperative Technique No. 8 American Technique Postoperative Technique No. 8 American No.		mord 565
DOGULOTTI A M Blood Transfusion in the Treat ment of Surgeal Infections SURGICAL TECHNIQUE Operative Surgery and Technique Postoperative Treatment Treatment Treatment Treatment Treatment Treatment Treatment Operative Surgery and Technique Postoperative Treatment Tr	WATERS C A COLSTON J A C and GAY L.	Nr 473
DOLLOTT A M. Blood Transfusion in the Treatment of Surgeal Infections SURGICAL TECHNIQUE Operative Surgery and Technique Postoperative Treatment Romi P Oxygea Therapy Mactivino A The Effect of Penactenal Sympa thectomy on the Taking of Autoplants Sin Grafts Antiseptic Surgery Treatment of Wounds and Infec- tions Antiseptic Surgery Treatment of the Wounds operative Telumishy Amputation. DOLLOTHAN A M. Blood Transfusions in the Treat ment of Surgeal Infections Gravit C The Roll of Pun by Nore-Section Higher P B A new Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A new Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A new Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A new Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A new Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A new Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A new Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A new Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A new Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A new Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A new Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A new Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A new Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A New Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A New Method of Penacterial Gravit I C The Roll of Pun by Nore-Section Higher P B A New Method of Penacterial Higher P B A New Method of Penact	zmia in Late Pregnancy 539 lignant Disease	sta
SURGICAL TECHNIQUE Operabre Surgery and Technique Postoperative Treatment of Surgers and Technique Postoperative Treatment of The Effect of Periasterial Sympa Michael Surgery Treatment of Periasterial Sympa Michael Surgery Treatment of Wounds and Infec- tions Annesthesia Cutt of Severe Case of Post Operatory A M. Blood Transfession in the Treat- ment of Surgery Infections Annesthesia for Addrey Operations Report of Miscellaneous Carnt I C. The Relief of Pain by Nerve Section Miscellaneous Miscellaneo	530 Cancer	ունս ջծայ
SURGICAL TECHNIQUE Operative Surgery and Technique Postoperative Treatment Rom I Postoperative Rom of National Sympa County on the Taking of Autophante Sin Critis to on the Treatment of the Wounds and Infections Cure of a Severe Case of Postoperative Technical Sympa and Mary The Treatment of the Wounds in Testans Cure of a Severe Case of Postoperative Testans by Amputation POELITIFE A 1 M Bood Transissous in the Treatment of Surgical India tions Gann't C The Relief of Pain by Nerse Section of The Surgery India to the Surgery Roman of Surgical India tions Gann't C The Relief of Pain by Nerse Section of The Surgery India to the Study of the Thrity Three Cases Occasional Spand American Report of The Three Cases Occasional Spand American Surgery and Presented Spand American Surgery and Presented Spand American Surgery and Presented Spand American Spand Form Revealed Preserved Spand Form Research Spand Form Res		5/59
SURGICAL TECHNIQUE Operative Surgery and Technique Postoperative Treatment	Colloidal Lead Combined with V Rays	and coo
Romi P Ospera Therapy Mactivino A The Effect of Pernaternal Sympa thectomy on the Taking of Autoplastic Skin Grafts Antiseptic Surgery Treatment of Wounds and Infec- toperative Telanus by Ampulation Document A M. Blood Transissions in the Treat ment of Surgeral Infections. Annesthesia Gann's F C The Relate of Fam by Nerve Section Therapy of Cancer at the Statement of Surgery Treatment of the Wounds Annesthesia Gann's F C The Relate of Fam by Nerve Section Therapy of Treatment of the Wounds Thery Directions of Prince Cases Controlled Spusal Anasthesia Renal Tuberculosis PHYSICOCHEMICAL METHODS IN SURGERY Reentigeology Control F Laddendroun of the Medical Control Family to Off Spring from Reentigen Irradiation PHYSICOCHEMICAL METHODS IN SURGERY Reconfigeology Control F Laddendroun of the Roght Trans Revolated by Reentige Examination Application of Case of Part of	ICAL TECHNIQUE	203
Rotting Departmental Studies on Injury to Off Spring Form F. Electropic on the Takenson of the Rotter of Personal Studies on Injury to Off Spring Form F. Exchange of Landson and Spring Form F. Exchange of Landson on the Studies on Spring from F. Exchange of Landson on the Studies of Landson on the Test ment of Surgical India toost Marsthesia for Addrey Operations Report of Thrify Three Cases 1000 Cectors of A. Pedimanary Report of Thrify Three Cases 1000 Cectors of Landson on the Test Activation of Surgical Studies on Studies of Landson on the Test Marsthesia for Addrey Operations Report of Thrify Three Cases 1000 Cectors of Landson on the Test Activation of Landson on the Test Studies of Landson on the Study of the Thrify Three Cases 1000 Cectors of Landson Operations of Landson on the Study of the Landson of Landson on the Particular Reference to hephrectomy in Renal Tuberculous 1000 Cectors of Landson Operations of Landson on Spring from Received Particular Reference to hephrectomy of Landson on Spring from Received Emissions of Landson on Spring from Received Emission of the Received Control of Landson on Spring from Received Emission of the Received Control of Landson on Spring from Received Emission of the Received Control of Landson on Spring from Received Productions of the Received Control of Landson on Spring from Received Productions of the Received Production of Landson Operation of Landson Operatio	and Technique Postoperative Radium	
Macutuo A The Effect of Perasteral Sympa thectomy on the Taking of Autoplastic Sis Grafts Antespic Surgery Treatment of Wounds and Infections Variat and Bary The Treatment of the Wound in Telanus Cure of a Severe Case of Post operative Telanus by Amputation Document A 11 Blood Transfession in the Treatment of Erica Miscellaneous Amenda of Surgery I Treatment of the Wound in Telanus Cure of a Severe Case of Post operative Telanus by Amputation Document A 12 Blood Transfession in the Treatment of Erica Miscellaneous Amenda Tobert of Pan by Norre Section ITS MACULATE A 2 Sun Treatment of Persional to Miscellaneous Amenda Tobert of Pan by Norre Section ITS MACULATE A 3 Sun Treatment of Persional Miscellaneous Amenda Tobert of Pan by Norre Section ITS MACULATION AND AMENDESIA OF Section of Telanus Treatment of Persional Control of Pan by Norre Section The Transfer of Pan by Norre Section ITS MACULATION AND AMENDESIA OF Section of Telanus Treatment of Persionation MISCELLANEOUS Claimed Enthes—General Physiological Conductor Amenda Toberton of Physiological Conductor MISCELLANEOUS Claimed Enthes—General Physiological Conductor Amenda Toberton of Physiological Conductor MISCELLANEOUS Claimed Enthes—General Physiological Conductor MISCELLANEOUS Claimed Ent		
thectomy on the Taking of Autoplastic Skin Grafts Antiseptic Surgery Treatment of Wounds and Infections Ivariar and Bary The Treatment of the Wounds and Infections Ivariar and Bary The Treatment of the Wounds and Infections Ivariar and Bary The Treatment of the Wounds and Infections Ivariar and Bary The Treatment of the Wounds and Infections Ivariar and Bary The Treatment of the Wounds and Infections Ivariar and Bary The Treatment of the Wounds and Infections Ivariar and Bary The Treatment of the Wounds and Infections Ivariar and Bary The Treatment of Periodic Society Ivariated Control of the Wounds and Infections Ivariar and Bary The Treatment of Periodic Society Ivariated Control of Treatment of Periodic Society Ivariated Control of Autophy Operations Ivariated Control of Periodic Society Ivaria		
Antiseptic Surgery Treatment of Wounds and Infections United Source of Source Case of Post operative Telanis by Amputation DOCLIDITA A N Blood Trainsisson in the Treat ment of Surgical Infections to the Nound operative Telanis by Amputation DOCLIDITA N N Blood Trainsisson in the Treat ment of Surgical Infections GANY F C The Reine of Fain by Nerve Section Iffalling B A New Method of Perspection of Thirty Three Cases Occeptation N F and Dilloy T G Ephedriae Controlled Spund Ameritaens Renal Tuberculost Ferners to Nephrocromy in Renal Tuberculost Ferners to Nephrocromy in PHYSICOCHEMICAL METHODS IN SURGERY Roentgenology Schucer P Experimental Studies on Injury to Of Spring Iron Reentgen Irradiation Spring Iron Reentgen Iron Reen	Taking of Autoplastic Skin Radium Institute of Paris	566
Anuseping courgery Treatment of the Young and Inter- tions Versa Table 1 Bar. The Treatment of the Young Docksourt A M. Blood Transfession in the Treat ment of Surgical Inde toos Annesthesia Gann't F C The Relief of Pain by Nerve Section Itsalt. F B A New Method of Pain-vertheral Annesthesia Gann't F C The Relief of Pain by Nerve Section Itsalt. F B A New Method of Pain-vertheral Annesthesia Carn't F C The Relief of Pain by Nerve Section Itsalt. F B A New Method of Pain-vertheral Annesthesia Coexisting N F and Dillow T G Ephedriae Coexisting N F and Dillow T G Ephedriae Size H I S Nephrectony under Spual Anasthesia With Particular Reference to Nephrectomy in Renal Tuberculosis PHYSICOCHEMICAL METHODS IN SURGERY Roentgeoology PHYSICOCHEMICAL METHODS IN SURGERY Roentgeoology School F J. The Standard Disposition PHYSICOCHEMICAL METHODS IN SURGERY Roentgeoology School F J. The Standard Disposits School F J. The Interpretation of Beast Histology Surgical Pathology and Disposits Surgical Pathology and Disposits of Cancer of the Histology Surgical Pathology	Muscallanaone	
an Tetanus Cure of a Severe Case of Post operative Tetanus by Amputation Document A 11 Disord Transissions in the Treat Annesthesia Canver I C The Related of Pain by Norre-Section Iffenia. F B A New Method of Parameterial Americans for Nadroy Operations Report of Thrity Three Cases Occession N F and Dillow T G Ephedrage Controlled Spusial Anasthesia Dick H S Nephrectony under Spusial Anasthesia With Particular Reference to Nephrectomy in Renal Tubertulars Renal Tubertulars PHYSICOCHEMICAL METHODS IN SURGERY Roentgeoology Chiefe P Lapermental Studies on Injury to Oil spring from Roestigen Irradiation Spring from Roestigen Irradiation Revolated by Roestiges Examination Surgical Pathology and Diagnosis Surgical Pathology and Diagnosis of Cancer of the College	Treatment of Wounds and Infec-	568
poperative Technics by Amputation poperative Technics and Poperation poperative Technics by Amputation poperation Technics by Amputation poperati		-
Documert A M. Blood Transfession in the Treat ment of Surgical find tons Annesthesia Gann't F C The Relief of Fain by Nerve Section Itsilin. P B A New Method of Parawetcheral Thrift Three Caes. Controlled Spusal Anasthesia Occesion F A and Dilloy T G Chedria Controlled Spusal Anasthesia with Particular Reference to Apphrectomy in Renal Tuberculosis PHYSICOCHEMICAL METHODS IN SURGENY Renal Reposition of Canada Studies on Injury to Oil spring from Reestigen Irradiation Pirrover E Lachendroma of the Right Trans Revealed by Rentger Estamination Serviced by Rentger Estamination Controlled Part Surgical Pathology and Diagnosis Surgical Pathology and Diagnosis of Cancer of the Controlled Parts Surgical Pathology and Diagnosis Surgical Pathology and Diagnosis of Cancer of the Controlled Parts Surgical Pathologo J. Preplaced J. Pathology and Diagnosis Surgical Pathology and Diagnosis of Cancer of the Controlled Parts Surgical Pathologo J. Preplaced		
Anasthesia GRANT F C The Relief of Fam by Nerve Section GRANT F C The Relief of Fam by Nerve Section HENLY F B A New Method of Parawetcheral Anasthesia for Addrey Operations Report of Therly Three Cases DOWN THE CASES CERTIFICATION OF THE CASES FOR A Contribution to the Study of the Therly Three Cases DOWN THE CASES FOR A CONTRIBUTION OF THE CASES FO	lood Transfusion in the Treat	lihan .
CRANT I C The Relief of Pain by Nerve Section IfENALE F B A New Method of Parawetchinal Amenthesia for Addrey Operations Report of Thrity Three Cases Controlled Spinal Amenthesia Renal Tuberculous under Spinal Amenthesia Renal Tuberculous PHYSICOCHEMICAL METHODS IN SURGENY Roentgenology PHYSICOCHEMICAL METHODS IN SURGENY Roentgenology Schwor F Lapramental Studies on Injury to Off- sping from Roentgen Irradiation PHYTONE Trocts of the First Lumbar Veriters Revealed by Roentgee Enamination Revealed by Roentgee Enamination Surgical Pathology and Diagnosis Surgical Pathology Surgical Pat		
ILENALY: F B A New Method of Parawetchint of Thrity Three Cases Amenthesia for Addrey Operations Report of Thrity Three Cases Occessitad N F and Dillon T G Ephedma Controlled Spual Amenthesia with Particulus Reference to Applications and Particulus Remain Data Constituted Paras Colloads Lead and Irraduction and Particulus Remains	Pesults of Goiter Prophylaxis	524
Ameritesia for kadeer Operations Report of Thrity Three Cases Occeptation N F and Dillion T G. Ephedina Controlled Spunal Ameritesia Size American C Radium Institute of Paris Martin Size American Controlled Spunal Ameritesia Renal Tuberculos femeres: to Nephrectomy in Renal Tuberculos		the 515
OCCURATION N F and DILLOW T G Lephednes Controlled Symula Anaesthesia With Particular Reference to Nephrectomy is Renal Tuberculosis PHYSICOCHEMICAL METHODS IN SURGERY Roentgenology Chitor P Laprimental Studies on Injury to Off- sprug from Roentgen Irradiation PHYTON I Lephedpoinn of the Right Trans Revised by Roentger Entantation Revised by Roentger Entantation Revised by Roentger Entantation Revised by Roentger Entantation Serviced by Roentger Entantation	adney Operations Report of Regaup C Radium Therapy of Cancer at	(F '4
Controlled Spual Anasthesia IEEE H S. Nephrectony under Spual Anasthesia with Particular Relevence to Arphrectomy in Renal Tuberculosis PHYSICOCHEMICAL METHODS IN SURGERY Roentgenology Schwor P Inperimental Studies on Injury to Oil spring from Roentgen Irmidiation PHYON E Lachandroma of the Right Trans Revealed by Roentge Examination State of the State of the Control of State of the Control of State of St		
Renal Tuberculoss former to Apphreciony in Renal Tuberculoss II. Collored Lead and Iradatuo in grant Renal Tuberculoss II. Collored Lead and Iradatuo in grant Renal Tuberculoss II. Surgers II. Collored Lead and Iradatuo in grant Renal	Anasthesia 547 Colloidal Lead with Roenthen Therapy in h	114
Renal Tuberculosas 547 Cancer Sonkow A. Costolow W. E. and Malawo O. N. Colloudal. Lead Combined with N. Kays and Sonkow A. Costolow W. E. and Malawo O. N. Colloudal. Lead Combined with N. Kays and Sonkow P. E. C. Lead Therapy SCHUGT P. Experimental Studies on Injury to Old spring from Recetting Introduction Perror E. Lochondroma of the Right Trans. Revealed by Recetting Enzimulation Revealed by Recetting Enzimulation Revealed by Recetting Enzimulation Stratus Siz G. J. The Interpretation of Breast Stratus Control of Stratus Siz G. J. The Interpretation of Breast Stratus Control of Stratus Siz G. J. The Interpretation Siz G. S. Siz G. Siz		120
PHYSICOCHEMICAL METHODS IN SURGERY Roentgenology Schwor P Laprimental Studies on Injury to Off- spring from Roentgen Irradiation Pirrovor Lockedroma of the Right Trans Revealed by Roentgee Examination Revealed by Roentgee Examination Serviced by Roentgee Examination Serviced by Roentgee Examination State Of the Service Servi	s 547 Cancer	509
PHYSICOCHEMICAL METHODS IN SURGERY Reentgenology Recurer P Experimental Studies on Injury to Old syning from Reentgen Irradiation Perrow E. Lachondermon of the Right Trans Revealed by Reentger Examination Revealed by Reentger Examination Surgical Pathology and Diagnosis Surgi	SORIAND A. COSTOLOW W. E. and MELAND U. I. Colloidal Lead Combined with V. Rays a	. Dai
Roentigenology Scritter P. Experimental Studies on Injury to Old spring from Roentgen Irradiation Perron E. Lechondroman of the Right Trans Revealed by Roentgee Examination Revealed by Roentgee Examination Service I Occasion of Service	AL METHODS IN SURGERY Radium in Treatment of Cancer	200
spring from Roenigen Irradation Perrows I. Lackonderman of the Right Trans Perrows I. Lackonderman of the Right Trans Revised by Roenigen Estamination Revised by Roenigen Estamination 554 Alexa O. The Early Diagnosis of Cancer of the	LNOY, L C Lead Therapy	300
Perrovi E Lockondroma of the Right Trans verse I cocess of the First Lumbar vertebra Revealed by Recentgen Examination 154 VanA O The Early Diagnosis of Cancer of the	ental Studies on Injury to Off Surgical Pathology and Diagnosis	
verse I rocess of the First Lumbar Vertebra Revealed by Roentgen Examination 554 VIANA O The Early Diagnosis of Cancer of the	edroma of the Right Trans CHEATLE SIR G L The Interpretation of Brei	ast C22
	the First Lumbar Vertebra Histology	the
	A. A. Increasing Resistance Uterus by Means of Smears	,000
	iccus Sepsis by Roentgen It Howes E L Sooy J W and MARKE,	560

BIBLIOGRAPHY

Surgery of the Head and Neck		Genito Urmary Surgery	
Head Eye Eye Noe and Smuses Mooth Thatyus Vet	571 571 572 572 572 573 573	Adrenal Kidney and Ureter Bladder Urethra and Penis Genatal Organs Miscellaneous Surgery of the Bones Joints Muscles Tendon	586 587 587 588
Surgery of the Nervous System Fus sad Its Coverings Cranial Nerves Synal Cord and Its Coverings Furphent Sympathetic Nerves Miscellaneous	574 574 574 575 575	Conditions of the Bones Joints Muscles Tendons Etc. Surgery of the Bones Joints Muscles Tendons Etc Fractures and Dullocations Orthopedics in General Surgery of the Blood and Lymph Systems	588 590 590 591
Surgery of the Chest Clest Wall and Breast Tracket Lungs and Pleura Hart and Percardnem Geophagus and Mediastinum Miscellareus	575 575 576 576 576	Blood Vessels Blood Transfusion Returdio-Endotheiral System Lymph Glands and Lymphatic Vessels Surgical Technique	592 592 592 592
Surgery of the Abdomen Abdominal Wall and Pentoneum Gato-Intestinal Triet Laver Gall Bladder Pancreas and Spleen Miscellaneous	577 577 580 581	Operative Surgery and Technique Postoperative Treatment Antiseptic Surgery Treatment of Wounds and Infections Anarythesia Surgical Instruments and Apparatus	593 593 594 594
Gynecology Litrus Adheral and Peruterine Conditions External Generalia Hiscellineous	581 582 582 583	Physicochemical Methods in Surgery Roentgenology Radium Miscellaneous	594 594 594
Obstetries		Miscellaneous	
Pregnancy and Its Complications Labor and Its Complications Preprint and Its Complications Ventorin Management of the C	583 585 585 586 586	Clinical Entities—General Physiological Conditions General Bacterial Mycotic and Frotozoan Infec- tions Ductless Glands Surgual Pathology and Diagnosis Experimental Surgery	595 595 596 596



AUTHORS OF ARTICLES ABSTRACTED

Alamannt R 537 Albee F H 553 Amberson J B 522 indérodias 542 Arrivat 563 Arnvac 503 Autefage 542 Ba.s, F 565 Basset A 535 Bastianelli P 527 Bary 563 Beck C S 524 Berger S S 523 Brachetto-Brian D 533 Browne F 1 540 Burley B T 519 Cade S 514 Cade S 514
Calissano G 555
Callahan W P 538
Capceth E 536
Cappell D F 520
Cheatle Sir G L 522
Cheroff Z G 520
Churchill E D 523
Ceconard G 523 Cicconardi G 532 Clayton E B 559 Coulan 546 Colston J A C 569 Costolow W E 569 Craco aner A J 523 Crafoord C 56 Cutler L C 524 Cu et I S 509 Couvelaire A 541 Danisch F 520 Darcissac M 513 David 1 526 Dervilke 542 Digonnet L 541

Dillon T G 547 Diveley R L 552 Deck W 565 Deck B 565 Deck B 567 Deckott A M 564 Dolley F S 522 Drury D W 513 Duke Elder P M 513 Duke Elder P M 513 Duke Elder W S 513 Durman D C 554 Edwards H 559 Eldh S M 515 Eliason E L 558 Esmamn V 541 Evans W 539 Falls F H 539 Feldman M 524 Feldman M 524
Fey 546
Fey B 545
Flandrin I 550
Fremmel I 530
Fredensald J 524
Gaglio V 561
Galeazz R 550
Gall G 526
Gay L V 569
Gelhorn G 537
Gietz K H 561
Grabam L A 525
Grant F C 520
Guillaume Loui 554 Guillaume Loui 554
Hansel F K 514
Harvey S C 569
Hellstrom J 531
Hellwig C A 538
Henling R B 547 Heseler O 555

Hicks J B 544 Hones E L 569 Hunt V C 550 Jaroschka K 565 Jeck H S 547
Juengling O 553
Kernan J D 523
King E S 544 Kleinberg 5 556 Kline B S 523 Knov L C 569 Kretschnet II L 547Legueu 546
Lelaenthal H 529 573
Lelambia J 533
Lelambia J 533
Lelambia J 533
Schugz H 538
Lelambia J 539
MacAublad W 549
MacAublad W 549
MacAublad W 559
MacAublad W 559 Kretschmer H L 546 Maghulo A 559 563 Mangaberra Albernaz I Mangabeta vibernaz 514 Mayrs E B 545 Meisen V 531 Meland O N 500 Meyer W 523 Miller J L 510 Moorhead S W 550 Viouchet A 555 Must V 560 Musil V 560 Nedelmann I 520 Ockerblad N F 543 547 Orosco G 533 Orr J L 538 Overgaard A P 565 Petermann 533 Pigeaud H 542 Pittoni F 554

Poincloux P 535 Polacco E 526
Fortes L 541
Radice I 525
Railsback O C 5(1
Randolph H S 546 I eaves R G 514 Kegaud C 566 Rizzacasa N 541 Robbiani A 533 Robban A 533
Rollier A 568
Ronzini M 522
Roth P 563
Schiltz I H 538
Schneiderand O 537 Skinner H \ 519 Skinner H \ 519 Smithies F 530 Soiland A 569 Sooy J W 569 Stone H B 531 Thomas T T 558 Trattner H R 548 Ullmann H J 500 Viana O 53f Vodogunskaya 5 V 320 Wagner Jauregg J 514 Waters C \ 569 Weissman M 530 Westman A 539 Wiese L R 522 Wijnen H P 55 Wijnen H P 55, Wilkie D I D 527 Zinn W F 524

EDITOR'S COMMENT

ILLERS comprehensive study of 343 cases of intestinal obstruction treated at the Charity Hospital and the Touro Infir mary at New Orleans (p 528) is another helpful contribution upon a subject of universal interest and ever increasing importance. In his clear cut presentation of the clinical picture the author emphasizes the importance of pain as a cardinal symptom he points out again the fact that con stipation and distention are absent in one half of the cases and states that of the cases reviewed none presented all the classical symptoms An interesting finding in the series reviewed was that the mortality following operations performed under local anæsthesia was 30 per cent higher and the mortality following operations performed under spinal anæsthesia 20 per cent higher than that following operations under general anæsthe The author does not, however indicate whether local and spinal anæsthesia were used predominantly in the cases of patients seen late in the course of the disease and those of patients who were considered poorer surgical risks

Wilkie 8 views as to the indications and value of gastro enterostomy (p 527) are clearly set forth in a recent paper in Surgery Gynecology and OBSTETRICS (Jan 1929 p 79) Essentially he agrees with the views expressed by Movnihan one of whose recent papers was reviewed in the last issue of the Abstract (May 19 9 p 432) As is well known the conservative stand which Movnihan Wilkie Paterson and other British surgeons have persistently maintained with refer ence to the surgical treatment of gastric ulcer and more particularly of duodenal ulcer is in rather marked contrast with the trend toward radical resection so pronounced on the Continent If a sufficient number of the many patients who have undergone radical resection in the past decade can be followed for a ten and fifteen year period we may soon have definite criteria by which to judge the comparative value and effectiveness of the different methods of surgical treatment which have been advocated for the cure of gastric and of duodenal ulcer

In this connection Galli and Polacco's experimental investigation of the results of Latarjet's

method of gastric denervation and of Schassis method of division of the vagit and sympathetic fibers of the stomach (p. 526) is of interest A certain percentage of the dogs which were subjected to extensive denervation operations developed gastric ulcers demonstrable by the \mathbb{Tay} and proved at necropsy

An interesting paper on meningeal hamoribage in the newborn with a discussion of the important etiological factors (Pigeaud p 542) and another reviewing the facts in four cases of meningeal hæmorrhage following spontaneous delivery (An derodias and Dervillee p 542) are abstracted in the section devoted to obstetrics. It is of interest that among thirteen cases of meningeal hæmor rhage found by Pigeaud at autopsy six followed spontaneous and normal labors. Of the thirteen cases four showed lesions of congenital syphilis in four others the diagnosis of syphilis seemed certain in only three cases was death attributed to the traumatism of labor. In autopsies per formed on fetuses of four or five months with the membranes intact Pigeaud found meninger hæmorrhage in six cases

Tumors involving glands of internal secretom and giving rise to symptoms resulting from the recessive secretion of such glands are being recognized with increasing frequency. Itsels case of adenoma of the adread cortex associated with marked pigmentations but not in this case with virulism (9 541) as interesting addition to the group of cases. Cappells report of a case of retropentional giant, honce neuroms successfully removed (p. 570) is also of unusual interest.

also of unusual interest of the many's experimental studies of the rate of health of missed sound as Sun fasca man fasca man stomath (p. 56). As a fasca man fasca from the fasca of the result of operation of the spine of the result of operation of the spine of the structural scolouss (p. 55). Landquast seport of four cases of aboses of the wer following appendictus (p. 532). Hellstom's report of two cases of cholete and enterollist (p. 533) and Graham siscussion of the spine cance of changed intratherace pressure (p. 532) are only a few of many other interesting abstracts in this month is susue of the 48stracer.

INTERNATIONAL ABSTRACT OF SURGERY

IUNE 1929

LANDMARKS IN SURGICAL PROGRESS

IRVING S CUTTER M.D. Sc.D. CHICACO Dan S rthwe te n U 1 ts ty M 1 1 S hool

EXTIRPATION OF THE PAROTID -GEORGE McCLELLAN

THE early years of Jefferson Medical College were enliv ened by an occasional tilt between a certain faculty mem ber of that school and a repre sentative of the older school the Medical Department of the Uni versity of Pennsylvania Shortly alter Granville Sharp Pattison assumed the professorship of anatomy at Jefferson (1832) the students of that school by means of a letter formally called his attention to the fact that the Professor of Surgery in the Uni versity of Pennsylvania Dr Wil Lam Gibson in a lecture delivered

late in the year 1832 denied that the parotid gland had ever been

erurpated To the students and faculty of Jeffer son this was less majeste The founder of Jefferson Dr George McClellan had already reported sev eral cases of exturpation of the parotid and this sur greal trumph had been set up as one of the house hold gods of the Jefferson student body. The letter to Professor I attison was dated January 1 1833 and concludes 1

We the students of Jefferson Medical College feeling the honour of our Professor (McClellan) in toked and the credit of our Institution concerned dl Jeff 150 Meda l Coll g Ph 1 d lyhu, th



Crosse Metalian (x-151)

in the fact being fully established would feel obliged to you if you would enter into a discussion of the question Has the Parotid Cland ever been extirpated?

One may wonder whether the letter emanated spontaneously from the student body or had been inspired by others and de signed to stimulate Pattison's polemic proclivities At any rate lattison took the cue and the result was the lecture cited

Lattison on the death of his teacher Allan Burns of Glasgow succeeded to his master's chair in 1813. He was a popular and fascinating lecturer and was re garded by the students as the

best teacher of anatomy in Glasgow He is re ported to have spoken with a list although his language is described as fluent and impressive He had edited Burns Surgical Anatomy of the Head and Neck to which he prefixed a life of that distinguished anatomist and had been more or less steeped in the doctrine enunciated by Burns who said of the parotid?

Its extirpation is quite out of the question On the dead subject I have attempted the extirpa tion of such tumours (of the parotid) but even there wang by W War er aft All Brn Obse t th S gical An tomy of th H da f Neck sec ded tion Glasgow 8 4 p. 292.

EDITOR'S COMMENT

ILLERS comprehensive study of 343 cases of intestinal obstruction treated at the Charity Hospital and the Touro Infir mary at New Orleans (p 528) is another helpful contribution upon a subject of universal interest and ever increasing importance. In his clear cut presentation of the clinical picture the author emphasizes the importance of pain as a cardinal symptom he points out again the fact that con stipation and distention are absent in one half of the cases and states that of the cases reviewed none presented all the classical symptoms An interesting finding in the series reviewed was that the mortality following operations performed under local anæsthesia was 30 per cent higher and the mortality following operations performed under spinal anæsthesia 20 per cent higher than that following operations under general anæsthe The author does not, however indicate whether local and spinal anæsthesia were used predominantly in the cases of patients seen late in the course of the disease and those of patients who were considered poorer surgical risks

Wilkie's views as to the indications and value of gastro enterostomy (p. 527) are clearly set forth in a recent paper in Surgery Gynecology and OBSTETRICS (Jan 1020 to 70) Essentially he agrees with the views expressed by Moynihan one of whose recent papers was reviewed in the last issue of the Abstract (May 19 9 p 432) As is well known the conservative stand which Moyniban Wilkie Paterson and other British surgeons have persistently maintained with refer ence to the surgical treatment of gastric ulcer and more particularly of duodenal ulcer is in rather marked contrast with the trend toward radical resection so pronounced on the Continent If a sufficient number of the many patients who have undergone radical resection in the past decade can he followed for a ten and fifteen year period we may soon have definite criteria by which to judge the comparative value and effectiveness of the different methods of surgical treatment which have been advocated for the cure of gastric and of duodenal ulcer

In this connection Galli and Polacco's experimental investigation of the results of Latarjet's method of gastric denervation and of Schiassi s method of division of the vags and sympathetic fibers of the stomach (p 526) is of interest A certain percentage of the dogs which were subpected to extensive denervation operations devel oped gastric ulcers demonstrable by the \ray and promoted the seasons.

and proved at necropsy An interesting paper on menin eal hamorrha e in the newborn with a discussion of the important etiological factors (Pigeaud p 542) and another reviewing the facts in four cases of meningeal hæmorrhage following spontaneous delivery (An derodias and Dervillee p 542) are abstracted in the section devoted to obstetrics. It is of intere t that among thirteen cases of meningeal hamor rhage found by Pigeaud at autopsy six followed spontaneous and normal labors Of the thirteen cases four showed lesions of congenital syphilis in four others the diagnosis of syphilis seemed certain in only three cases was death attributed to the traumatism of labor. In autopsies per formed on fetuses of four or five months with the membranes intact Pigeaud found menin eal hæmorrhage in six cases

Tumors involving glands of internal secretion and grung nee to symptoms resulting from the recessive secretion of such glands are bent recognized with increasing frequency. His report of a case of adenoma of the adrenal cortex associated with marked pigmentation but not in this case with virulam (9.44) is an interesting addition to the group of cases. Carpellas report of a case of retroportional gain home neuroma successfully removed (p. 570) be also of univasia unterest.

Howes Son and Harvey's experimental studies of the rate of health of incased wondies at the studies of the rate of health of incased wondies. Alembergs report of the results of operative fusion of the spine in structural scolouss (p. 50). Landquast seport of four cases of sholes of lover following appendicuts (p. 519). Helistoms report of two cases of choles and entertainty of the studies of t

x

In all three of McClellan's cases as reported the patients recovered each showing however, a facial paralysis

Ao sooner had Pattison s discourse been pub bshed than there appeared in the Transyliania Medical Journal (1832) a communication from Frederick E Beckton of Murfreesborough Ten nessee calling Professor Pattison's attention to the fact that the parotid gland had been extirpat ed in January or February of 1823-three years pnor to McClellan's first operation-by John Beale Davidge at the time Professor of Anatomy in the College of Medicine of Maryland in Balti more This case was reported in the Baltimore Ph losophical Journal and Review! The opera tion from which the patient fully recovered was performed in the presence of two Baltimore physicians Dr Solomon Birckhead (1761-1836) and Dr Thomas Wright (? -1856) and two of the operator s pupils To the communication of Beckton Pattison replied that he was unaware of the operation performed by Davidge and prom sing due credit to that operator in his forthcoming

work on surgery
Alfar as can be determined Pattison s lecture
ties the major number of published parotud
options He does not include that of John
Warna (1733-1856) described by his son John
Collans Warren (1778-1856) who says in his
Sampacil Observations on Tumours 2

The scirrhous state of the parotid being incurable by medies a surgical operation is the only resource an operation requiring some degree of skill tooliess and knowledge of anatomy

The first operation of this kind I recollect to have suressed was performed by my late father in the far flot. The patient was a lawyer from Maine kirty jears old of good constitution and alto have been a favorable subject. The tumour was large and a favorable subject. The tumour was large the fact of the

Agnews gives the date of Warren's operation as 1798. He further states that this operation pioneered the way for those of later operators

Apparently no report of John Warren's operation was published until the work of John Collins Warren above mentioned hence the operation could not have served as Agnew indicates Agnew further states that McClellan of Green castle, Franklin County Pennsylvania removed the parotid in 1805 that White of Hudson New York performed the same operation in 1808 and that Sweat of Maine removed the parotid three times between 1811 and 1841 Sweat's cases were not reported until 1851 when his article appeared in the New York Journal of Medicine 4 His first case was operated in 1811 the second in 1814 and the last in 1841 All resulted in recoveries including several cases mentioned but not de tailed

From the foregoing one may vizualize the sen ous contentions among surgeons on a surgical point that would today be settled by experi mental evidence Ten extirpations of the parotid were performed and of these the case of John Warren appears to hold American priority in per formance only Many of the operations were not published until a generation or more later when as guides to surgical procedures their descriptions would have become useless George McClellan however not only performed the operation successfully many times but pub lished his results promptly and through his surgical lectures widely disseminated knowledge of the operation. His eleven cases with ten recoveries clearly established surgical removal of the parotid as feasible and practical and to him for repeated successful operations of like char acter history must vield acclaim

George McClellan was born at Woodstock Connecticut on December 23 1796 In 1812 he entered the sophomore class at Yale College, graduating with honors in 1815. In 1817 he attended lectures at the University of Pennsyl vania later as has been related entering the office of Dr John Syng Dorsey as a private pupil He was known as a brilliant student un usually keen for the time on physiological and pathological studies Between 1820 and 18 6 he taught private classes in anatomy and surgery In 1826 he founded Jefferson Medical College a move that rendered him anything but popular with the profession of I hiladelphia as it was assumed that Philadelphia at the time could not support two schools of medicine In 1838 the professorships of Jefferson were all vacated by action of the Board of Trustees and in the re organization Dr McClellan's name was not

V I VII N w York, \$5 Cases f Extirp to of Parotid Glands Moses Sw t, M.D. f North Parso 6 ld Maine.

till i Si This al gurid by D dg dit to South ebeys dath farmt mbe 1 b Coll Warr Sgrid beet a Tmurs Bost 11, p 3; Clother to a Tmurs Bost 10; Cl

510

have never succeeded in cleaning away fully the diseased substance

John Bell had said 1

The cutting out completely of the parotid gland is a thing quite impossible since the greatest of all the arteries viz the temporal and the maxillary lie absolutely imbedded in the gland

John Bell later revised his original doctrine in his treatise on surgery,2 stating that he had often erturpated the diseased parotid and his brother Sir Charles Bell says that he had assisted John in the extirpation of the gland Burns contended however from the case reports of John Bell that he had extirpated only the lower lobe of the

William Gibsons the offending lecturer was born in Baltimore in 1788 attended Princeton and medical lectures at the University of Penn sylvania. In 1807 he journeyed to Europe and became a student of John Bell in Edmburgh receiving his M.D. degree in 1809. Later he was a private pupil in the family of Sir Charles Bell in London He returned to America in 1810 and began the practice of medicine in Baltimore, as suming the Chair of Surgery in the University of Maryland in 1812 Upon the death of John Syng Dorsey in 1818 and the transfer of Philip Syng Physick to the Chair of Anatomy Dr. Gibson was appointed in 1819 to the Chair of Surgery in the University of Pennsylvania While in Baltimore he was closely associated in the Maryland faculty with Dr. John Beale Davidse (1768–1829) who later (1821) published an account of an operation in which he extirpated the parotid gland. This operation had probably escaped Gibson's notice but should have been known to Pattison who for several years was a teacher in Baltimore having accepted in 1820 the chair of Surgery at the University of Mary land vacated by Gibson Pattison however does not mention Davidge's case in his address to the students of Jefferson When Pattison assumed the Chair of Anatomy at Jefferson he became per force closely associated with Dr George Mc Clellan and learned of the operations on the parotid performed by the latter Although con trary to the teachings of his master Burns McClellan's surgical achievements were fully accepted by Pattison and in his address he proved an able champion of McClellan's operative skill

There are numerous indications that Gibson had but a poor opinion of McClellan's surgical ability McClellan had not studied in Europe and he had been a friend and pupil, a hero worshipper of the late John Syng Dorsey who ere his untimely death had been going ahead in surgical Philadel phia quite too rapidly to suit certain members of the Pennsylvania faculty

Prior to the delivery of his address Pattison had evidently searched the literature with considerable care. After indulging in sarcastic com ments on an alleged quotation from the offending lecture of Professor Gibson he cites numerous instances of parotid removal among others Heister in 1733 Stebold 1781 Abetrethy and Goodland 1815 Carmichael 1818 Beclard 1824 Gensoul 1824 and 1826 and Lisftanc 1826 He gives considerable space to the first case reported by Dr George McClellan which was performed 1n 1826 4 He says

The first case in which Dr George McCledan operated was one which would be e deterred a man of less energy of mind and professional emmence from attempting the operation. The subject of it, Dr Graham a gentleman at present highly respe ted in his profession in the city of New York was at the time the operation was executed a medical student in Philadelphia The tumour was large and its anterior face was marked by a custri left from a former operation in which from the difficulties which met the surgeon in his attempt to extract it he was induced to desist. My friend s boldness -a boldness resting on his knowledge of Su gical Anatomy ass not to be daunted by the failure of a previous operation. He was confident that the operation might have been and still cold be successfully executed. He assured the patient that his confidence as to its pract cability was so

strong that he wa himself prepared to undertake He did perform the operation and thus established the justness of his opinion and saved the life of a valuable Member of the Profession comfort and a consolation in the recollection and assurance of this fact Gentlemen which neutralizes the poison of all calumny and misrepresentation Dr Graham is still alive and in good health and having since the operation visited Europe and been examined by Sir A tley Cooper and the late Mr bernethy those distinguished surgeons have un hesitatingly declared that no doubt can exist \$5 to the ahole gland having been removed Bit their declaration to this effect was unnecessary [shall only ask any unprejudiced person to perou m) friend a description of the appearance presented by the wound immediately after the operation and then ask their own mind if a single doubt as to the whole gland having been exturpated in this case can remain

If a B lt An t my Sol IS sos -1 m m m runches 1 w grey h w h et 8 p 498 11383-363 fins h et k w nu gent 1 butto m spons tig th sai Ipe f manor f a trans an action from po the same an of v of 1. The same was reported by f to than a same find Aug 515 II h B ll Promopes I u gray h w link 8 p 495

American Medical Pe sew and fo enal Ph lad holes. See tel bi

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Dufourmental and Darcissac An Attempt to Treat Inferior Retrognathism (Essai de traite ment du retrognathi me inferieur) Bull et mem Soc d chiri resent de Par 1028 TT 750

Man; forms of retraction of the lower jaw can be corrected by orthodontic treatment but few at tempts at surgical correction have been made when orthodontic procedures were not applicable

Temporomandibular ankylosis in infancy may tause the most marked forms of retrognathism with strophs of the bone and retrusion of the chin In 1914 the authors described two operations for widen mg the arch of the lower jaw (1) median osteotomy with the introduction of a bone graft and (2) staircase osteotomy followed by separation of the two halves without the use of a bone graft

In another operation performed at that time on the cadaver cuneiform resection through the full thickness of the jaw was done in both the cuspid and beuspid regions and the incisive fragment allowed to drop back. It was believed however that the mullation resulting was too great and the viability of the fragment too questionable to warrant the ap plication of the operation to the living

In one case the authors resected the protruding superior manila at the expense of the anterior teeth and replaced the teeth with an artificial denture To increase the correction an operation was done on the joints the external lateral ligament being cut and a piece of the eighth costal cartilage being inserted behin I the condyle The uncut external pter goids tended to hold the jaw forward Dislocation will not occur after this procedure According to Ferabeau and Sebileau the joint surface of the glenoid is about five times greater than that of the condyle la the author's case improvement in function was of more importance than improvement in contour Mastication which was scarcely possible before the operation was quite normal following the interven ton The ray showed the condyle to be well forward The cartilage was not clearly distinguished but seemed to be continuous with the posterior part of the condy le TAMES B BROWN M D

EYE

Duke Elder W S and Duke Elder P M A Ilis tological Study on the Action of Short Waved Light upon the Eye with a Note on Inclusion Bodies Iril J Ophib 1928 xii i

The clinical and histological appearances of the shiotic reaction to light as seen in the cornea con

junctiva iris lens and retina are the same in kind al though varying in degree The most interesting and characteristic changes are the oxyphil degeneration affecting the nuclear chromatin which may go on to the formation of acidophil granules or of granular or homogeneous nuclear inclusions Originally intra nuclear these may be extruded into the cytoplasm with disintegration of the nuclei a process which may culminate in death and disintegration of the cell The reaction is characterized by intense vascu lar engorgement where that is possible and is fol lowed by rapid regeneration and resolution in which the absence of karyokinetic activity is notable

The general abiotic reaction is based on photo chemical denaturation affecting the proteins of the cells

Two separate actions are demonstrated in the lens the first affecting the capsular and subcapsular epi thelium and the second affecting the lens substance The authors conclude that in common with other regions of the energy spectrum ultraviolet radia tions are a factor in the etiology of cataract

The subcapsular wall has an appearance similar to that of the corneal epithelium. Definite abiotic changes in the retina affecting mainly the ganglion cells and inner nuclear layer consist essentially of a chromatolysis and a tendency to stain readily with acid dies. The authors therefore conclude that they are a pathological intensification of physiologic cal processes of vision rather than a direct abiotic response

in analogy between the nuclear appearances of ab iotically traumatized tissue and the inclusion bodies occurring in the lesions caused by herpetic and other viruses and possibly also in trachoma tends to sup port the opinion that these appearances are degener ative in nature and non specific in origin

LESUE L. McCov M D.

EAR

Syndrome Complex Menière \co Drury D W England J Med 1929 CC 173

The author reports in detail a cases of the Meniere syndrome of endocrine origin and I case not of endocrine origin. In the former there was thyroid insufficiency and all of the symptoms disappeared on the administration of thyroid extract. In the case which was not of endocrine origin improvement re sulted under general care

The author believes that in cases without symp toms of dysfunction the cause lies in a general sys temic disturbance. In 500 cases of endocrine origin included He promptly set about the organization of an entirely new faculty obtaining a charter for the Medical Department of Pennsylvania College at Gettysburg In this new school lec

tures were commenced in Philadelphia in Novem

ber 1839 with nearly 100 students in attendance His Principles of Surgery 1 unfinished at the time of his death was completed by his son2 and IG & M Cl fl Pr iple IS gry Philad lph 845

contains records of many novel and original Another son General George B McClellan gained distinction in the early part of the Civil War and later became largely identified with rail

road engineering and management Death suddenly claimed George McClellan on

May 8 1847 DJHBMCIlle 8 3 874

surgical procedures

a half years) is still too short as the majority of school children six or seven years of age have not been under the continuous influence of iodine

According to Swiss statistics the incidence of pulpable gotter in the neabour is lower when the molisers receive indicate salt (r mgm. of potassium solute to i kgm of sodium chloride) during pregancy. Few injurious effects from iodized salt have been observed in Switzerland although prophylavis sobligatory in six cantons.

A comparison of the statistics for 1923 and 1927. For Venetes shool children reveals a distinct de crease in juvenile gotter. The decrease has been apticularly marked in the severe strium a the incidence of which has dropped from 16 to 0.16 per cet 48 the consumption of judiced salt in Vienna amounts to only 47 per cent of the total consumption of table salt only half of the children in Vienna has been under the influence of judine during the list three and a half years. Reports from other provinces are similar. The number of operations for guster performed in Vienna has also shown a marked decrease the total number in 1926 being only 61 per cent of the total number performed in

Eldh S M A Contribution to the Study of the Basal Metabolism in Golter at Puberty Acta med Scand 1928 lxix 286

ERRLICH (Z)

Not much attention has been paid to the basal metabolism in gotter at puberty and the clinical picture of such gotter is not clearly defined Not infrequently the diagnosis of exophthalmic gotter is made than icases of diffuse (colloid) gotter with more or less prominent but often rapidly passing symptoms suggesting hyperthyreosis.

The parenchymatous form of gotter increases in frequency at the time of puberty. In association with it there are generalized cardiovascular disturbaces due to increased glandular function leading to Kropiters or Basedow 8 disease. Even in cases of marked gotter swiptoms due to loss of function of the gland which has become enlarged through decreation may be lacking.

Wegeln makes a destitution between diffuse and nodular genters. The diffuse gotter may be either a Basedon gotter with diffuse gotter may be either as Basedon gotter with diffuse gotter may be collected when the most before the gotter with gotter sunly occurs in adolescence and often dis appears spontaneously between the ages of twenty and thrity varies.

Holmgren in 1000 was the first to show that the Jadones of gooler and tach cards; in adolescent plays one of good that an increase in height a cases of gooter and tach, that in cares are not and tach, the cases of gooter and tach, the largest are made of the largest are which were studied by a occurring in adolescence which were studied by a concurring the largest are ranged 5 cm. whereas in cases in which the 5 mptoms developed after adolescence the proportions were normal.

According to Holmgren's description girls with hisperthy reosis at puberty are usually tall lively and nervous and suffer from gotter tachycardia and tremor As a rule they have a fair complexion shin ing eyes abundant hair and an intelligence above the average They menstruate and mature early

In a description of gotter at puberty Huttnel and that the axe of the thy rod gland steadily increases until adult age the increase being particularly marked at puberty. This development may lead to pathological changes but as a rule the enlargement soon disappears leaving the neck a little thick. There are no pains inflammatory reactions advent toous vascular sounds or nervous phenomena. The gland is soft and elastic. The hypertrophy is too slight to be called gotter.

Sometimes however there is a true parenchyma tous goiter. This may diminish in size and yet cause persistent symptoms. There is no definite relation ship between the size of the goiter and hyperthy.

reosis
More or less pronounced Basedow's disease is char
acterized by prominence of the eyes a large thiroid
with well marked veins nervous and psychical fea
tures cardiovascular symptoms and frequently
emactation

Girls with hypofunction of the thyroid have puffy features cold and cyanotic extremities and a dull expression. They are slow in their movements indo lent and not very tall

In examinations of school children in Finland Kaartinen found goiter in 18 6 per cent. The goiters reached their greatest size and frequency at the age of thirteen years.

Earlier investigations of the basal metabolism in cases of goater at puberty were carried out in only a few cases and by different methods the results being therefore difficult to evaluate. In four cases of diffuse gotter in girls at puberty. Il Doubler found the metabolic rate to be normal. In none of these week there true symptoms of hyperth recoss but in the histological picture has that of Base down softer.

Möller reported six cases of goiter diagnosed as the Basedow or forme fruste type and five diagnosed is simple goiter. Only two of the Basedow or forme fruste type had an increased metabolic rate. In none of the cases were there any ocular symptoms and in two there was no tachy cardia or increase in perspiration. The symptoms were therefore very much like those not infrequently occurring in girls at puberty and soon disappearing. Gardiner Hill Brett and Forrest Smith find the

colloidal goiter to be the usual form at puberty

One cause of the conflicting data is the difference of opinion as to how the individual case should be classified with reference to the character of the goiter and other clinical features. Another is the variety of apparatus used and the difference in the methods employed in the calculation of the basal metabolic rate.

The author studied nineteen cases of goiter at puberty and the laboratory records of twenty-one others. Krogh's method was used and in the

which he studied the symptoms were always found to be due to hypofunction rather than hyperfunction Grorce R McAuttre M D

NOSE AND SINUSES

Hansel F k Malignant Tumors of the Naso pharynx Arch Ololaryngol 1929 1x 12

Malignant tumors of the nasopharvux produce such a great variety of sympoms that they should be of interest to the surgeon internst neurologist coulist and otdiary ngologist. While they are invariably locited in the loss of Rosenmueller, they quickly invade adjacent structures so that fully some process to the symptoms are of extransial origin. Such symptoms are variable depending upon the structures awarded. All of the crainal periors are affected but the sixth enver is involved most frequently.

The diagnosis is often difficult because of the small size of the primary growth and the absence of naso pharynger! symptoms but the condition should be suspected in every crise of unexplained priloy or irrit tion of the cranial nerves and in cases of enlarged

cervical glands

The tumors are so highly malignant that palliative treatment with radium or the \rangle ray offers only a

grave prognosis

The author has seen twelve cases and cites four others in which the clinical picture was dominated by extranasal symptoms. Gronge R. McNeuer M.D.

Reaves R G A Comparative Study of Chronic Sinusitis with End Results Following Intra nasal Operations Arch Otologyng 1 1929 12 23

The author reports a study of cases of chronic sinusitis which he divides into three groups (1) those of the chronic suppurative type (2) those of the chronic hyperplastic type and (4) those with polypoid degeneration of the mucosa. The studies included the chief complaint the history and the findings of inspection transillumination ray ex amination and laboratory tests. The classification cannot be exact as there may be a combination of conditions but when pus is present in great quan tity a diagnosi of the suppurative type of sinusitis is made. In hyperplastic sinusitis, headache is fre quent and often of the vacuum type accompanied by soreness back of the exballs Polypoid degeneration is often accompanied by a watery discharge and speczing anosmia bronchitis and asthma Active treatment is surgical Its object is to estab

Active Irelinesis and surveys and the service is the ventiation and surveys. The south is done intransally mine the clausest the attrement the service is the service in the service in the service is the service in the service in the service in the service in the service is the service in th

The postoperative treatment lasts from sever to ten days and consists in painting the operative field with mercurochrome and irradiating it with quartz ultraviolet rajs About 90 per cent of the cases clear up if ventila tion is established and proper after treatment is given Growge R Mc trippy M D

MOUTH

Cade S Radium Therapy of Cancer of the Buccal Cavity Lancet 1929 CCXV1 8

I rimary cancer of the tongue can be made to disappear by menns of radium in a large proportion of cases. The treatment depends upon the selecture action of the gamma rays upon the newly developed cells. The more rapidly the tumor grows the more sensitive it is to the gamma rays.

In cancer of the buccal cavity one of the following three methods of irradiation are used depending upon the anatomical site of the lesion

I interstitial irradiation by the use of radium needles around the tumor. This is most suitable for small and easily accessible tumors.

2 The cavity method in which the requisite.

amount of radium is carried by a vulcanite denture lined with lead. This method is used for cancer of the palate uvula and cheek. The denture may be wom continuously or intermittently.

3 The surface application of Columbia paste. This method is employed for secon fary cervical in volvement.

The primary treatment by radium is usually followed two or three weeks later by treatment of the lymphatic areas by surgery or radium or both. The author discusses the technique of applying radium in various locations and reports a few cases.

PHARYNX

CHARLES W FREEVAN M D

Mangabeira Albernaz P The Etiology and the Etiological Treatment of Plant Vincent An gina Lary goscope 19 9 xxxx, 1

The author states that Plaut Vincent anging is a phary ngeal localization of fusospirochatosis

This disease is produced by the association of the fusiform bacillus of Le Dantec with a spirochate which may be called Vincent's spirochate in default of an exact microbiological classification

In the treatment the use of bismuth or the arismobenzols is indicated. Bismuth is less toxic more powerful and more economical than the arismose zols and is immediately and certainly sedative allowing the pain. Janes C. Braswell M.D.

NECK

Wagner Jauregg J Preliminary Report on the Results of Golter Prophylaxis (1 otlastifer Be nebt ueber Erfolge der Kropfprophylaxe) II ses kin in könnich 1918 xii 833

For final conclusions regarding the success of elforts at gouter prophylaxis statistics must be of lected from regions in which the use of todayed salt is obligatory. The period of observation (three and

that in a the nodule resembled a true benign paren chimatous neoplasm but did not participate in the hyperplasia present in the surrounding tissue. In 34 per cent the nodules were due to colloid cysts As all of this group were cases of long standing the chan e was attributed to over involution during spontaneous remissions or after indine treatment Hypertrophy and hyperplasia were present in the nodules and surrounding tissue In 58 per cent of the cases there was a circumscribed hyperplasia with intervening areas of normal tissue. Therefore the nodules found in toxic goiters may be true adeno mata over involuted tissue or circumscribed areas of hyperplasia Thyrotoxicosis with nodular gor ter is considered a more accurate term than toxic adenoma

Histologically the hyperplasia of hyperthy roidism is similar to the physiological hyperplasia of puberty differing mainly in being more marked. Hyperplasta may be present without Basedow's disease and Basedow's disease may be present without apparent hyperplasia. It must be remembered however that a very small hyperplastic area is capable of produc

ing intoxication

The todine content of normal glands has been found to vary from 0 48 to 27 mgm Bauman and Zest reported the average to be 66 mgm Oswald found the content of normal glands to vary from 048 to 136 while in 43 simple goiters the content ranged from 11 7 to 26 9 mgm The colloid gosters had the largest amount the parenchymatous type had less and the adenomatous type had least total iodine was greater than the normal but the amount per gram of dried gland was less than the normal

Colloid is essential for the storage of iodine Ma tine found more todine per gram of dried gland in cases of Basedow's disease than in those of colloid gotter indicating that iodine deficiency is not essen

tial in hyperthyroi fism

Marine thinks the iodine content of the adenoma is less than that of the surrounding tissue DeQuer Van has seen adenomata with 3 times the amount of

odine in the surrounding tissue

la studies of the effect of the administration of lodine on the rodine content of the gland Jansen and Robert found that without previous administration of iodine there was a relative iodine deficiency in hyperthyroidism with a slight increase in the total some content of the gland After the administra tion of sodine the normal gland showed a relatively great increase in iodine while in simple goiter and hyperthyroi lism there was a moderate relative and absolute increase

Before the administration of iodine in colloid goiter the todine content of the blood was 30 per cent of formal In Basedow's di case it was 3 times the normal There was no relation between the iodine contert of the blood and that of the gland These and and the bloom and that of the Basedow type of gland is a able to store rodine because of excessive produc ton of the thy rold harmone After the administra

tion of jodine the blood in simple colloid goiter showed a great increa e in jodine indicating that excessive jodine in the blood is not responsible for the into ucation Certain patients with colloid or adeno matous goiter who became toxic after the adminis tration of sodine did not show an increase in the iodine content of the gland. Others had an increase in the iodine content of the gland without an increase in the blood jodine. There seems to be a qualitative factor in the secretion which may or may not be iodine in pature

Rienhoff supports Marine s view that the action of todine in hyperthyroidism is a mechanical interfer ence with the escape of the secretions into the cir

culation

The thymus gland is frequently enlarged in pa-tients with hyperthyroidism. Warthin believes that hyperthyroidism occurs only in persons with the so called lymphatic constitution and that an enlarged thy mus is necessary

Capelle found an enlarged thymus in os per cent of cases in which death followed an operation for hyperthyroidism in 82 per cent of cases in which death resulted from the disease, and in 44 per cent of cases in which death resulted from intercurrent in fection Marine believes the thymic enlargement is secondary and part of the systemic reaction

Garre reported a cure after thy mectomy and it is possible that some of the benefits of roentgen ray therapy are due to the effect of the irradiation on the

thymus

With regard to the nathological physiology there are many theories all speculative. In Krehl's opin ion an individual predisposition is an important factor According to Aschoff a hypersensitive nervous system is responsible for the individual predisposition and there is more than one active principle

In Oswal's opinion the primary disturbance is in the enithelial cells of the thyroid which lose the ability to convert jodine into a form capable of being stored the result being a high iodine content of the blood rapid excretion of toding from the hody and

iodine deliciency

D Ouervain believes there are multiple active substanc s He refers to Kendall's experiment in which different effects were noted with acid soluble an I alkalı soluble substances and calls attention to the dissociation of symptoms in cretinism. The cardinal symptoms of cretinism are skeletal changes mental defects and deaf mutism. In dwarfed creting the thyroid is atrophied whereas in the absence of skeletal defects it is of normal size or enlarged. The genitalia and growth of hair are defective in the dwarfed cretins but not in cretins of normal stature

In any explanation of the pathological physiology it is necessary to take into consideration the fact that only a very small amount of thyroid tissue is require I for intense into tication an observation which discounts the presence of a pure hypersecretion

In the use of the term hypothyroidism there is much confusion At present clinical my wdema or cretinism should be accepted as the criterion of hypo majority of cases several readings were made. The

The Aub Dubons formula based on the law of body surface and the Kenture Knipping formula gave closely parallel results because of common fee tors but the value obtained with the former sequences and the value obtained with the former sequences of the value obtained with the former sequences of the value obtained with the value of the body is abnormally great or small the values must be judged with care but when the height is normal the results can be considered reliable.

In the cases of girls who are growing rapidly and in whom a normal throud gland may be in contrast to a tim neck, the diagnosis of gotter must be made with caution. In the cases of others, a slight swelling of the anterior part of the neck may be called gotter especially when it is accompanied by nervous vasor.

motor symptoms

The author's material is divided into the following

four groups
Group : Cases of gotter with clinical 53 mptoms
of hyperthyreosis (Basedow 5 disease)

Group 2 Cases of goiter without clinical symptoms of hyperthyreosis

Group 3 Cases of gotter of Holmgren s type

Group 4 Cases of slight diffuse enlargement of the

thy rord (thick neck)
Although the clinical symptoms in all of the cases
of Group 1 were similar and suggested the presence
of hyperthy rooss the basal metabolic rate in some
of them was within normal limits or only slightly
increased

In Group 2 the basal metabolic rate was within normal limits or somewhat below normal

Group 3 included eases of goater which in addition to symptoms of hip perthyrecosts showed an abnormal growth in height. In two there were symptoms of Basedows disea e with a high basal metabolic rate in all except one of the others the basal metabolic rate was normal. In the one exception the rate was high but fell to normal after hip pital treatment.

In Group 4 the basal metabolic rate was normal in all except one case. In the one exception it was below normal and after thyroid medication the enlarge

ment of the neck disappeared

At the age of puberty the variations in the normal intent of the basal metabolic rate are much greater than in adul's especially when there is any deviation from the normal in the patient is height and well than obviously increased basal metaboli in supports the diagnosis of hyperthyreosis but a normal basal metabolic rate does not exclude the presence of perthyreosis when the other clinical symptoms favore the diagnosis. A single clinical symptom does no normal basal metabolic rate rate out such a diagnosis in the presence of clinical is mploms.

Zondek and others assume that in such cases of gotter with definite clinical symptoms of hyperthy recoss and a normal basal metabolic rate the condition is not a pure hyperfunction of the thyroid but is a dysfunction due to the effect of other endocrine organs By this hypothesis it may be possible to

explain the mixture of symptoms of hyperthyreo is and symptoms of hypofunction of the thyroid a syndrome not infrequently found in cases of gotter in girl at the age of puberty

E S Plair MD

Miller J L Thyrotoxicosis from the Internist s
Standpoint Am J M Sc 2020 claves 03

Physiological enlargement of the throad occusduring infancy at puberty and during pregnance. At these times the gland histologically resembles the hyperplastic gotier of hyperthyrodism but does not cause touce signs or symptoms. Some observers be lieve the mistability of the nervous sistem at puberty is due to a mild hyperbly roudism. Association for the major strong of an increase in the basis instituble, range, a fonding of an increase in the basis metabolic.

Iodine will usually prevent the physiological hyperplasia. After the administration of iodine the hyperplasia disappears and the gland reverts to the colloid type. Physiological hyperplasia is not confined to goiterous districts. but is more marked in those districts.

The amount of soduce required to prevent byer plasa is exceedingly small. The soluted slit tued in Switzedland contains 5 mgm per lalogram and the samual intake of soduce is about 15 mgm. If after it is not solve to the solute of the solute

The apparently excessive iodine content of sait is thought to cause the conversion of simple goiters into those of the touc type

In surgery of the thyroid the atrophy of the thy
roid that occurs with advancing age must be taken

into consideration

The first clear description of exophthalmic goiter
was given by Mobius in a monograph published in
1886

To date no one has improved on Mobies
definition of Basedow slicease as an intoxication of

the body due to abnormal activity of the throod.

The pathological histology of the throod in hyper
thyroidism is varied. St dies of the basal metab
olism have shown the presence of hyperthyroid in
without material enlargement of the gland and the

classical triad of goiter exophthalmos and tachi cardia has been abandoned. Two general types of gland are recognized—the diffuse hypyrplastic and the nodular or adenomatour It is debatable whether the adecomas is a tree tumor

It is debatable whether the adenoma is a true tumor or merely a parenchymatous hyperplasia Certain simple adenomata respond to iodine in the same manner as the hyperplastic thyroids and a

same manner as the hyperplastic tray-constitutions admonant responds as well as the event that the admonant is critically a support of the defension of the constitution of the constituti

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Skinner H A The Origin of Acoustic Nerve Tumors Bril J Surg 1929 xv1 440

Acostic nerve tumors arise on the vestibular division of the nerve occurring on the non glial segment dutal to the plane of the porus acusticus internus the central glial segment of the nerve is never pri many involved in the tumor. The perspheral origin stependent upon factors in the embryonic development of the nerve. The typical cell of the tumor is the neurlemna sheath cell which develops from the heard trest. The fibroblasts are of mesodermal origin.

The peripheral portion of the auditory nerve is in general similar to that of other peripheral nerves but contains a greater amount of fibrous tissue. This fi brous tissue is probably in the nature of a tissue reac

Tao types of acoustic nerve tumors are distinguished the cilializer and the fibrous. Those of the former type are probably of more rapid growth and more easily removed at operation while those of the latter type have a longer history but tend to bleed more and are hable to be adherent to the dura and adjacent tissues. Many tumors occupy an interme date position between these two types.

The type of tumor may be determined by the degree to which the fibroblasts are able to confine the neurlemma cells during the process of development ALBERT S CRAWFORD M D

SPINAL CORD AND ITS COVERINGS

Burley B T Spinal Cord Decompression Indica tions and Results New England J Med 1929 cc

In Burley's opinion spinal cord decompression might be performed with advantage more often for paraplegias in the early stages with spinal cord compensations.

Compression of the spinal cord may be acute or valuative. The acute type may be due to fracture disocation of erfebre hemorrhage with or without hemotomic the arachmond and about the second of the

The suthor reviews the literature briefly and report three cases. The first case was that of a twelveter-old grif with an epidural absects which caused a complete block at the level of the twelfth dorsal stretchar Evacuation by laminectomy resulted in a complete cure. The second case was that of a man of forty one years with a spinal block at the level of the wellth dorsal vertebra a complication of pneumo coccic meningitis. Drainage was done but the patient died. The third case was that of a woman twenty two years old in whom a pressure myelitis and arachnoditis developed secondarily to an endothelial myeloma of vertebra and a rib. Operation evnosed the lesson but proved fatal

ALBERT S CRAWFORD M D

Chlenoff Z G and Vodoguinskaya S V A Case of Spinal Arachinolditis Operated upon Twice (Un caso de arachoiditis espinal operada dos veces)

4rch argent de neurol 1928 II 311

The patient whose case is reported was a woman twenty mee years of age who was admitted to the heapstal on October 12, 1925 for spastic paraphresis of the lower limbs. In February 1921, 8th bad had child followed by copious sweating and for this conduction she had taken quinness as he lived in a malarial rigion. In the second week of the illness she began to notice weakness in her tight foot. The weakness in creased and in September 1924 it was difficult for the first first foot and she was unable to take a long step. In March 1925 she began to notice weakness also in the left foot and she whe trought if gell. After August 1925, she had difficulty in retaining her urions and her 3850 heckane noor.

When she entered the hospital her mental condition was found normal. The spleen was enlarged The movement of all of the joints was limited by spasticity. At the knee there was a hypertonic pendulum reflex Urinary continence alternated with urinary incontinence. Below the second dorsal vertebra pain heat and tactile sensation was de creased and below the fifth dorsal vertebra there was complete pain and temperature anarothesia Muscle sense was normal The Wassermann test was negative Signs of compression of the spinal cord were noted Lipiodol stopped at the third dorsal vertebra but after a few days it passed on down to the third lumbar vertebra and a few days later only isolated drops could be seen at either of these levels

Mercury neosalvarsan and quinne were without effect. The symptoms progressed pain developed in the region supplied by the second and fourth dorsal nerves and there was a zone of hyperalgesia at the level of the second dorsal nerve. Ultimately the patient became unable to walk.

On February 24 1927 resection of the laminæ of the third to fifth dorsal vertebræ disclosed in the subarachmoid space a membrane stretched like a sail which was adherent to the pia mater and the arachmoid This membrane was resected. After the operation the patient showed marked improvement thyroidism and not the basal metabolism alone since a low basal rate may be present without evi

dence of hypothyroidism

The diagnosis of hyperthyroidism is complicated by the frequency of simple goiter and the fact that in many cases of hyperthyroidism there is only very slight enlargement of the gland Signs and symp toms may precede an increase in the basal rate Later in life and in long standing hyperthyroidism there may be tachy cardia or fibrillation with only a slight increase in the basal rate and the condition may be classified as chronic heart disease. Goiter and hypertension may be accompanied by increased metabolism without hyperthyroidism guishing a functional pervous disturbance from hyperthyroidism observation for a few weeks and repeated determinations of the basal rate are necessary

Iodine hyperthyroidism resulting from the admin istration of fodine or iodized salt may be relieved by withdrawing the iodine Except in intense intorica tion observation over a period of two months is

advisable before radical treatment is undertaken Drug therapy does not cure apparent cure under medical treatment is due probably to the tendency of the disease to undergo pontaneous remissions Indine is not curative. Its chief use is limited to preparation for operation Digitalis is indicated only in auricular fibrillation and is less effective than in fibrillation due to other causes. The best cardiac treatment is rest in hed. Physical and mental rest is incapable of effecting a cure

Only surgery and roentgen ray therapy are bene ficial or curative Roentgen ray irradiation is a val uable form of therapy and is free from the undesir able complications of larvingeal paralysis tetany and myxordema The administration of iodine before operation has lowered the operative mortality

The internist awaits the presentation of sati factory evidence of the percentage of cures by these two methods A report from the Lahey clinic in Boston is satisfactory for a surgical series except for the short time that has elapsed since the treatment. In 02 per cent of the cases there has been complete relief from the hyperthyroidism but 15 per cent of the patients show definite evidence of clinical myx cedema A high incidence of cures seems to be accom panied by a relatively high incidence of myxeedema

No follow up series has been reported for roenteen ray theraps

Following less radical removal the incidence of cures was reduced to 70 per cent approximately that obtained with the roentgen ray This is probably the limit of the curative effect of the roentgen ray Even though the higher incidence of cures following sur gery carries with it a greater incidence of myrede ma the aftermath is less disabling than the original

The use of the roentgen ray is not advisable in the severe cases since a period of from eight to twelve weeks must clapse before the results are apparent In the milder types roentgen ray irradiation is per missible but even in the milder forms either surgers or roentgen treatment is much preferable to a hope for spontaneous recovery

In the pre-operative preparation todine is essen tial Sodium sodide is more palatable than Lugol's solution and just as efficient One cubic centimeter of Lugol's solution is equivalent to 150 mgm of sodium todide. When todine is continued over a long period there may be a return of toxicity. Indine should not be discontinued until surgical measures have been carried out

The length of time that the administration of rodine should be continued after operation is debat able and the value of sodine in preventing recurrence

is not settled The mode of action of iodine has not been deter mined nor has it been proved that large doses of todine are indicated

A condition of rest favors better remissions The length of time required for a satisfactory remission is usually from eight to twelve days and occasionally as long as three weeks Longer delay is usually dis appointing from 5 to 10 per cent of cases failing to show a remission

It is important to recognize the development of myxcedema in order to prevent chronic invalidism

Of the operative measures subtotal thyroider tomy is more successful in relieving hyperthyroids in than lobectomy However the latter procedure gives a cure in about 70 per cent of cases without the danger of myxordems and when necessary may be followed by a second operation. When total the roidectomy is required myxordema is unavoi lable E. S PLATT M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Skinner II A The Origin of Acoustic Nerve Tumors Best J Surg 19 9 xvi 440

Assists nerve tumors arise on the vestibular division of the nerve occurring on the non glial segment distal to the plane of the porus acusticus internus. The central glial segment of the nerve is never primarly involved in the tumor. The perspheral origin is dependent upon factors in the embryonic elevapin entirely and the second of the tumor is the neurleams sheath cell which develops from the neural crest. The shoroblasts are of mesodermal constitutions of the second of the second of the second primary of the second of the second of the second of the neural crest. The shoroblasts are of mesodermal

The peripheral portion of the auditory nerve is in general similar to that of other peripheral nerves but contains a greater amount of fibrous tissue. This fibrous tissue is probably in the nature of a tissue reaction.

Two types of acoustic nerve tumors are distinguished the cellular and the fibrous. Those of the former type are probably of more rapid growth and more easily removed at operation while those of the litter type have a longer history, but tend to blead more and are label to be adherent to the dura at stycent tissues. Many tumors occupy an interme date position between these two types.

The type of tumor may be determined by the de gree to which the fibroblasts are able to confine the neurilemma cells during the process of development

ALBERT S CRAWFORD M D

SPINAL CORD AND ITS COVERINGS

Burley B T Spinal Cord Decompression Indica tions and Results New England J Med 1929 cc

In Burley's opinion spinal cord decompression might be performed with advantage more often for paraplegias in the early stages with spinal cord compression.

Compression of the spinal cord may be acute or valuetie. The acute type may be due to fracture dislocation of settlebure harmornhage with or without barmatomyelia cedema of the arachnoid and ab tesses. The subscrute or chronic type may be the treult of a bony lesion tuberculosis of the bone a tumor sphin's a circulatory lesion meninged its

the or spinors a circulatory reason analysis the surface are from the such or tree as the first case was that of a twelve year old gri with an epidural abscess which caused a compite cure. Every control of the well-defined as a compiter cure. The second case was that of a man of complete cure. The second case was that of a man of complete cure. The second case was that of a man of

forty, one years with a spinal block at the level of the twelfth dorsal vertebra a complication of pneumo coccic meningitis. Drainage was done but the patient died. The third case was that of a woman twenty two years old in whom a pressure myelitis and arachnoiditis developed secondarily to an endo thelial myeloma of vertebra and a rib. Operation exposed the lesson but proved fatal

ALBERT S CRAWFORD M D

Chlenoff Z G and Vodoguinskaya S V A Case of Spinal Arachnolditis Operated upon Twice (Un caso de aracnoiditis espinal operada dos veces) it k argent de neurol 1928 u 311

The patient whose case is reported was a woman twenty nine years of age who was admitted to the hospital on October 12 1925 for spastic paraparesis of the lower limbs. In February 1924 she had had childs followed by copious sweating and for this condition she had taken quinne as she lived in a malarial region. In the second week of the illness she began to notice weakness in her right foot. The weakness in creased and in September 1924 it was difficult for the to lift for foot and she was unable to take a long step. In March 1975 she began to notice weakness also in the left foot and she where frought if ell. After Yugust 1925 she had difficulty in retaining her urrune and her vision became poor

urine and her vision became poor When she entered the hospital her mental condition was found normal. The spleen was enlarged The movement of all of the joints was limited by spasticity. At the kinee there was a hypertonic pendulum relies Urinary continence alternated with urinary incontinence. Below the second dorsal vertebra pass heat and studie sensation was decreased and below the fifth dorsal vertebra there was complete pain and temperature amerikesia. Muscle sense was normal. The Wassermann test and server the part of the spinal country o

Mercury neosalvarsan and quinine were without effect. The symptoms progressed pain developed in the regions supplied by the second and fourth dorsal nerves and there was a zone of hyperalgesia at the level of the second dorsal nerve. Ultimately the nation became unable to walk

On February 24, 1927 resection of the laming of the third to fifth dorsal vertebrae disclosed in the subarachinoid space a membrane stretched like a sail which was adherent to the pia mater and the arachinoid This membrane was resected. After the operation the patient showed marked improvement but later she had severe pain in the feet and there was a considerable decrease of sensation of the root type in the regions supplied by the fifth lumbar to the third sacral nerves

At another lamnectomy performed on June 36
july, the lamnae of the thurd to fifth lumbar verte
bræ wire resected the dura matter was sectioned and
a membrane annular to that found at the higher level
was discovered. This membrane also was resected.
Following the operation the patient showed marked
Following the operation the patient showed marked
for the patient of the patient showed marked
under treatment with injections of fibroly sun and
dathermy.

The patents history of typical attacks of childs fever and sweating the irregular fever and the on largement of the spleen noted in the hospital and the fact that the patent lived in a malarial region indicate that the arachnodatis was caused by malaria. The marked and progressive improvement following the second operation indicates that only the memnices were affected.

AUDREI G MORGAI M D

SYMPATHETIC NERVES

Cappell D F Retroperitoneal Ganglionic Neuro ma J Path & Ba teriol 1929 YXII 43

New growths of the peripheral nervous system composed of true nervous elements are relatively un common. They usually occur in connection with the abdominal x myrithetic chain. They may attain a farge size and generally present an admitture of adult and embryonic tissue. Those in which the nervous elements are of adult type are rare. The neuronic reported in this article was pissibly the largest on record and consisted solely of adult cells

The patient a woman of twenty seven years complained only of slight pain in the right abdomen of one year aduration. I hysical examination was essentilly negative except for a mass in the right lumbur made and the neoplasm was exposed through a right recruis notion. It was adherent to the interior vena cava and common like vens but wa clearly removed. It neasured it by its fem and weighted toology. On Convidence was uneventful and three years have the patient appeared to be in perfect the patient appeared to be in perfect.

The tumor probably arose from the abdommal sympathete chain Both its gross and its microscopical appearance was that of a gangloine neuromal its tructure was uniformly adult in type with non-medulilated fabers markedly predommating over the againgtonic cities and the same of the same and th

The au ho includes in his article a photograph of the gross cross section of the tumor two pyelograms and eight photomicrographs

ALBERT S CRAWFORD M D

MISCELLANEOUS

Danisch F and Nedalmann E A Molfgener Thymoma with a Feeding Phestassia dan ten Gentral Nervous System in a Child Three and a Half Years Old Also a Contribution on the Chinal Tecture and Pathological Anatomy of Chinal Tecture and Pathological Anatomy of Pathological Control of the Control Fluid (Box strages Chymon Barten and Activity Investigation Zugleet on Berting on Main do pathologisches Antome der Geschwal undehat op athologisches Antome der Geschwal undehat 1978 Cct. 2011.

The authors report a malignant thymoma in a child three and a half years old which was remark able on account of the metastases formed in the eranial and spinal nerves. The peculiar propagation of the tumor in these nerves must have taken place by way of the cerebrospinal fluid from a plexus metastasis. The case is therefore of special importance with regard to the still disputed question as to the movement and absorption of the cerebro pinal fluid. The manner of the tumor infiltration of the permeural and endoneural lymph channels in the dura strongly suggests that the greater part of the Cerebrospinal fluid is carried off through the lymph channels of the cranial and spinal nerves. At the sites of emergence of the nerves through the dura there is a physiological narrowing of the efferent lymph channels at these site especiall, ther had occurred in the case reported a massive implantation a tumor cells and extensive nodular swelling of the STABL (Z) affected nerves

(rant F C The Relief of Pain by Nerve Section J Am M 4ss 1929 Ct 116

The pain of malignant conditions in the ensory distribution of the fifth craimal nerve can be releved by alcohol injection or intracranial section of the proper branches of the users. Such blocking is followed by general improvement a gain in weight and strength a change in the mental situation and willingness to continue proper treatment where the sile properties of the sile properties of the sile of the sile

In encess of the store of the mouth and tosal the pain at difficult to control as these regions are supplied not only by the tragement nerve and the cerv at invest P and the ear and throat is not affected by tragement section. Frequently, the store that the section Preduction to the section and the early at the section Preduction to the section Preduction to the section Preduction and the section Preduction and the section Preduction Production Pr

Alcohol injection is suitable only for relatively small leasons in an area supplied by a single division of the nerve. It is sait (actory within its limited field but operation is preferable. Since most panell malagnapies are in the lower two thirds of the fare complete avul ion of the sensory root is usually unnecessary. Section of the nerve trunks peripheral

to the ganglion is a simple procedure and avoids ophthalmic complications

Grater relief is possible in cases of superficially instant growth swithin the trageminal area than in those of growths involving the deeper areas of the fixer and mouth. Complete permanent relief of pain is less hisly when the floor of the mouth tonsillar pullars or nasal accessory summers especially the ethnoid or sphemoid sinuses age removibed. Rapid protect of the provided of the growth outside the zone of amesthesia

may cause a recurrence of the pain

When cessation of the pain and freedom from the necessity for morphine is obtained the result is considered successful. If pain recurs outside the tri genumal area but is easily controlled by morphine until death the result is considered partially successful. Of fifty six patients with cancer of the face who

were treated by nerve block thirty two were completely relieved fourteen were partially relieved and more were not relieved. Of the nine who were not relieved four showed extensive degeneration of the superior maxilla involving the accessory sinuses and five had widespread involvement of the floor of the mouth.

la case of pain in the neck, beneath the angle of the gas and below the sensory distribution of the tagmand here laminectomy with section of the tagmand nerve laminectomy with section of the painting of the control o

the posterior and anterior triangles of the neck precludes peripheral nerve section and indicates cervical rhizotomy

Neither ingeninal section nor cervical rhizotomy will affect pain deep in the ear or in the throat Section of the glossopharungeal nerve preferably intracranial than extracranial will relieve the pain in the throat but pain deep in the ear is not affected by this operation or by section of the vagus or extra cranial section of the cervical symmathetic chain

crainal section of the cervical sympathetic chain hollowing the success of nerve section in malignant conditions of the face the procedure was applied to malignancy in other parts of the body gastric crises and painful amputation stumps

Two methods are possible posterior rhizotomy

and chordotomy either unilateral or bilateral Rhizotomy should be used in cases of relatively

localized lessons not involving more than four derman more seen in volving more than four derman more more more seen play of adjacent sensors segments the posterior roots running to the segments above and below the region involved must be cut. There for ext posterior roots must be sectioned for a lesson causing pain in four dermatomeres. Six roots can be exposed by removing five laminar which is about the limit of safety. Chordotomy is indicated in extensive unilateral or

Chordotomy is indicated in events we initiate to have been been been been an apparatus of the property of the

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Cheatle Sir G L The Interpretation of Breast Histology Lancel 1929 ccxvi 37

Cheatle states that epithelial hyperplasia of the breast should be classified as genetic when it is nor mal as desquamative when the process ends in the shedding from the surface of the epithelium of cells which are incapable of existing separately or of multiplying and finally die and as dysgenetic when there is a pathological formation of lining cells which are capable of multiplying

He suggests the term mazoplasia to replace the term chronic mastitis since the condition to which the latter is applied is of the desquamative type and has no etiological connection with an inflammatory process Cystophorous (cyst forming) hyperplasia is the second process of the desquamative type and is important because it may become dysgenetic. If the epithelial hyperplasia is dysgenetic the pathologist should state whether it is papillomatous and confined within normal boundaries or has become a duct car cinoma

In Cheatle's opinion it is safest to remove all breasts that are cystic or contain dysgenetic epithe hal hyperplasia VATHAN & CRORN M D

TRACHEA LUNGS AND PLEURA

Ronzini M Pulmonary Tuberculosis and Uni lateral and Bilateral Pneumothorax in Pres nancy (Tubercolosi polmonare e collassoterapie uni e bi laterale in gravidanza) Clin ostel 1928

xxx 611

There is no doubt that pregnancy may aggravate either an active or a latent pulmonary tuberculosis but it is true also that in a very considerable per centage of cases the pregnancy does not have any effect at all on the disease. As there are no accurate data available concerning the later prognosis of the tuberculosis in such cases the course to be followed in regard to the pregnancy should be decidedly con servative and abortion should be induced only when it can be proved that the aggravation of the tubercu losis is due to the pregnancy and is not merely an associated condition

As pregnancy does not constitute a contra indica tion to artificial pneumothorax the indications for this method of treatment are the same as in the non pregnant state In addition to its usual advantages this treatment has the advantage in pregnancy of overcoming the disequilibrium in the intrathoracic pressure caused by the pregnancy If the pneu mothorax is induced with special care with only partial collapse and negative pressure and if a care ful watch is kept over the patient the treatment is

perfectly compatible with normal pregnancy and labor If pneumothorax cannot be induced for technical reasons extirpation of the phrenic perve may be substituted as it has been found that paralysis of the diaphragm does not interfere with the normal course of pregnancy and labor

Ronzini reports five cases in which unilateral pneumothorax was induced and one case in which bilateral pneumothorax was induced without inter fering with normal pregnancy and labor

AUDREY G MORGAN M D

Lilienthal II and Amberson J B Unilateral Pneumothorax The Behavior of the Mediasti

num Arch Surg 1929 XVIII 533 From a roentgen study of the behavior of the mediastinum in unilateral pneumothorax the au

thors draw the following conclusions In pneumothorax with an external opening

blowing exercises tend to inflate the collapsed lung and force the mediastinum toward the open side 2 In closed pneumothorax blowing exercises tend to compress the collapsed lung and force the medias

tinum toward the healthy lung which is also com 3 In pneumothorax with an external opening straining with the closed plottis deviates the medias

tinum toward the open side and expands the col lapsed lung 4 In closed pneumothorax straining with the

closed glottis produces little or no deviation of the mediastinum

5 In closed pneumothorax forced expiration tends to rotate the heart and its attachments 6 In the roentgenological study of closed or open

pneumothorax observations and records should be made in deep inspiration in full expiration and in straining with the glottis closed J FRANK DOUGHTY M D

Dolley F S and Wiese E R The Effects of a Large Closed Bilateral Pneumothorax or Thor acie Lymph Flow Arch Su g 1929 xvm 54

In experiments on dogs the authors found that bilateral closed pneumothorax caused a marked re duction in the intrathoracic lymph flow. They be lieve that it has the same effect in man and that in suppurative diseases of the lungs it may act benefit cially by lessening the toric absorption that is break ing down resistance or harmfully by producing an effusion with its attendant danger of infection by py ogenic organisms

They state that the operation of choice in tubercu losis is the one that gives maximal rest lymph stass and fibrosis with minimal pulmonary collapse and circulatory disturbance J FRANK DOUGHTS M D

Churchill E D The Strain on the Collateral Lung in Collapse Therapy 4rch Surg 1929

The author's experiments on cats have demon strated that the burden thrown on a lung by sudden increases in the volume of blood flow is compensated for not only by an increase in ventilation but also by an increase in the area of the functional diffusing surface brought about by the opening of reserve capil

in pathags
Therefore when clinical cases are studied with a
new to collapse therapy, the possibility of strain on
the collateral lung arising from an increased functional burden may often be greatly discounted

J FRANK DOUGHTS M D

GEORGE A COLLECT M D

Kline B S and Berger S S Pulmonary Abscess and Pulmonary Gangrene Clinical Course and Pathology A ch Surg 1929 xviii 48t

In pulmonary absees, the sputtum is whitish vel for mecoperulent and without an appreciable odor. Wen asshed it usually shows progenic organisms generally staphylococci. In pulmonary gangerian staphylococci. In pulmonary gangerian stophylococci. In pulmonary gangerian stophylococci. In pulmonary gangerian stophylococci. In pulmonary gangerian stories and gangerian stories and gangerian stories and green. When carefully washed and propriet stated it shows the characteristic spirochartes (using backling and whomes

Pulmonary gangrene responds well to treatment with arsphenamine but poorly to abscess therapy

Lilienthal II Cyst of the Lung Recovery Follow ing Operation for Permanent Drainage 1rch Sarg 1020 IVIII 202

The author reports a case of cyst of the lung in a sonan fifty four years of age. For nine years the patient had plain in the chest and for six months indinite. Here we have the six most a stream of the chest a large shoular mass which on aspiration yielded a choor old-colored fluid. The mediastinum was displaced to the colored fluid. The mediastinum was displaced to the coophagus. A diagnosts of dermoid cyst was made to the coophagus.

Under local ansesthesis supplemented by the use of antious ouds a portion of the second in his size. Based and an effort made to marsupulate the cyst the chest wall. The cyst wall could be readily stated in the size of the size of the size of the size of the chest of the size of th

At a second in state react.

At a second in state react.

At a second in state react.

At a second in state react, and a shirth was there and resembled embryonic skin was temoved as the react which was the react with react the state of the react was the react with for the react which react was the react with grant of the cavity drained quite freely. The fluid litter became of a mucoud character and finally an attempt of the react was the react with reaction of a mucoud character and finally and the react was the re

organized canal was formed between the cost cavity and the skin surface

The patient made a complete recovery and is now quite comfortable but must continue to wear a tube with a valve at all times to prevent distressing dyspinca. On account of her age no attempt will be made to remove the cyst will.

Even though the contents of the cvst did not reveal the hart and other elements usually found in dermoid cvsts the chiracter of the cyst wall seemed to establish the origin of the cvst definitely. In the author s opinion the embryonic origin of this type of cyst may be the pinching off of a bronchus or bronchiole with the formation of a retention cyst or faulty anlages of the lymph vessel systems of the corresponding lung. The cyst in the case reported may have been of either origin but on account of the total absence of an epitheial inning the author believes it was due to a faulty anlage.

WILLIAM J PICKETT M D

Meyer W Primary Cancer of the Lung Arch Surg 1929 x 101 307 Kernan J D and Cracovaner A J Carcinoma

of the Lung Arch Surg 1929 xviii 315

Meyer is of the opinion that cancer of the lung is due like other cancers to chronic irritation. The

is due like other cancers to chronic irritation. The irritation may be caused by the constant whalsation of smoke dust soot sales or other impurities in the air. The more frequent incidence of cancer he right long to the right lone right that the right to the fact that the right main bronchus straighter and larger than the left main bronchus. The fact that from \$8\$ to op per cent of cancers of the lung develop primarily in the larger bronchus and not in the parents may of the large sprobably explained by the yerr rich blood supply of the paren

chyma

Veyer emphasizes that for improvement of the results in pulmonary malignancy early diagnosis and aggressive radical treatment of the cancer

while its still imited to the bronchus are essential KERNAN and CARCOLANER report the case of a woman with complete attlectass of the left lung due to blocking of the left mun bronchus by a car cinoma. The tumor was seemingly entirely removed by the use of radium seeds and the application of diathermy through the bronchoscope. In the period of a bittle over a vera since the beginning of treat ment the patient has been entirely reheved of her symptoms.

This case is reported to emphasize the value of bronchoscopy in the diagnosis and treatment of tumors of the lung and the importance of investigating the cause of atelectasis by bronchoscopy

In the discussion LEMON called attention to the fact that bronchostenosis is present in the majority of cases of bronchial tumor

BRUNN reported two cases in which the roentgen ogram showed a tumor the size of an orange in the upper part of the chest These cases resembled each other so closely that when the roentgenograms

nere compared it was scarcely possible to distinguish one from the other but at operation one tumor proved to be an osteochondroma arising from the intervertebral disks and the other a cyst arising from the posterior mediastinum

RALPH B BETTWIN M D

HEART AND PERICARDIUM

Cutler E C and Beck C S The Present Status of the Surgical Procedures in Chronic Valvular Disease of the Heart Final Report of All Surgical Cases Arch Surg 1929 2v11 423

Operation has been performed in twelve cases of chronic valvular disease of the heart. The authors review the ten cases recorded in the literature and report two in which they themselves performed the operation The twelve cases include one case of aortic stenosis one case of pulmonic stenosis and ten cases of mitral stenosis

In the case of aortic stenosis which was operated upon by Tuffer a finger dilatation of the aortic ring was effected by invaginating the aortic wall into the The patient recovered and showed stenotic ring

improvement over several years of observation In the case of congenital pulmonary stenosis with a patent interventricular septum a tenotome was inserted into the right ventricle in an attempt to divide the stenotic valve. Death occurred shortly

after the operation

Of the ten patients with mitral stenosis only one is living. The mortality in this group was therefore 00 per cent. In the eight fatal cases, death occurred so soon after the operation that the changes brought about in the mechanics of the circulation could not be adequately studied

In the case reported by Souttar a finger dilatation of the mitral ring was performed. The finger was inserted into the mitral orifice through an opening made in the auricle. The patient is still living and

shows improvement

In the case reported by Cutler and Levine in which the mitral ring was incised with a tenotome inserted into the left auricle the patient lived for four and one half years after the operation and showed general improvement although there was no definite improvement in the circulation

The exposure of the heart is determined by the method of approach to the valve itself. If the mitral valve is approached through the ventricle the midline sternotomy or large osteoplastic flap If the valve is approached through is necessary the auricle a less extensive exposure by resection of costal cartilages and the sternum may be adequate The problem of locating the stenosed valve by either

approach is discussed in detail In the cases reviewed three methods were used in the attempt to enlarge the stenotic orifice namely finger dilatation incision of the stenotic valve with a tenotome knife and excision of a segment of the stenotic valve with the cardiovalvulotome designed by the authors In one case in which death occurred

during the operation the tardioscope was used This gives only a very slight degree of visualization of the endocardium at the point of contact with the instrument

The authors believe that the gradual tran for mation of a stenotic valve to a valve of the insufficient type is more successful than a sudden change produced by the removal of a piece of the valve However this problem cannot be solved until it is possible to produce experimental stenoses similar to those occurring in man and then suddenly cause unsufficiency

The article contains eight plates showing the mi tral valve after the operation in the cases that came to autopsy J EDWIN LIBERATRICK MD

ŒSOPHAGUS AND MEDIASTINUM

Friedenwald J Feldman M and Zinn W F: Peptic Ulcer of the (Esophagus Am J M Sc 1929 clxxvn 1

Peptic ulcers of the resophagus closely resemble peptic ulcers of the stomach and duodenum. They occur most frequently in the lower third of the asoph agus but occasionally are formed higher up Those situated near the cardia rarely extend downward into the stomach The lessons vary from minute round or oval hamorrhagic areas to large irregular areas be tween 8 and 10 cm in length. They may be super ficial or deep. As in ulcer of the stomach, there may be erosion of blood vessels with hamorrhage or per foration and the formation of adhesions to neighbor ing organs Although the ulcers are usually single they may be multiple. Occasionally several ulcers coalesce to form large pregular lesions The right posterolateral wall of the cesophagus is involved most frequently With healing of the ulcers cicatrices are produced which lead to stenosis

The etiology of peptic ulcer of the exophagus is similar to that of ulcer of the stomach or duodenum

The most prominent symptoms are pain dyspha gia and vomiting. The diagnosis may be greatly aided by fluoroscopy and exophagoscopy

Four types of defects have been noted on roentgen ray examination mucosal erosions and penetrating spastic and perforating defects. The penetrating de fect is pathognomonic Stricture is a complication

seen after healing of the lesion

The treatment consists in the eradication of foci of infection rest regulation of the diet and the af ministration of olive oil alkalies and belladonna supplemented at times by the direct application to the diseased area of various remedies such as silver nitrate. In obstinate cases ga trostomy may be necessary

The authors report thirteen cases Seven of the patients were males The ages ranged from twenty eight to sixty eight years In one case there were two ulcers Aine of the ulcers were in the lower third of the esophagus one was in the middle third and four were in the upper third Dy sphagia and substernal discomfort were present in all cases and pain was present in all but two Pyrosis vomiting and regur gitation occurred in six cases and hamorrhage in three All cases showed resophageal defects in the mentgen picture The duration of the condition ranged from ten days to eight years. Eight of the patients were relieved by simple dietetic and medical management. In three cases rehef resulted from detary measures and the focal application of silver mirate One patient was not benefited and one died of perforation followed by pneumonia

MANUAL E LICHTENSTEIN M D

MISCELLANEOUS

Graham E A The Significance of Changed Intra thoracic Pressures 1rch Surg 1929 xviii 181

Graham emphasizes that the principle of com pressive or collapse therapy has been of the utmost value in properly selected cases of pulmonary tuber culosis and pulmonary suppuration but such treat ment will be made entirely safe and satisfactory only when we have acquired a much greater knowl edge of its effects on fundamental physiological processes In the normal thorax any great increase of pressure in one pleural cavity results in pressure disturbances not only on the lung of the same side but also on the lung of the other side

Of the other effects of collapse therapy some are beneficial and others are harmful In experiments on animals Sauerbruch found that an increased thoracic pressure caused by an open pneumothorax raised the venous pressure in the extremities a result which seemed to indicate that the flow of

senous blood into the heart was impaired At the Washington University Medical School

St Louis Allen is now engaged in an investigation of the resistance of the normal and diseased myo tardium to changes in intrathoracic pressure Graham has frequently noticed that patients who have been in bed for a long time are more likely to develop pulmonary cedema after thoracoplasty than patients whose my ocardium has been maintained in

a more robust condition by exercise

Thoracoplasty may markedly reduce the vital capacity but this is not necessarily a serious matter

unless the patient develops pneumonia or cardiac decompensation

Our knowledge of the effect of increased intra thoracic pressure on the pulmonary blood and lymph circulation is at best fragmentary. In experi ments on dogs Andrus found that after the ligation of the main bronchus of one lung a marked reduction in the amount of blood occurred in the atelectatic lung. The presence of the atelectasis seemed to be the decisive factor in the diminution of the blood supply White and Gammon found experimentally that if fat is injected intravenously after the induction of unilateral pneumothorax all of it will go to the opposite lung. In experiments on rabbits and cats to determine the effect of increased intratho racic pressure on the lymph flow. Singu noted that after the inhalation of soot the production of a uni lateral pneumothorax greatly prolonged the time required for the elimination of the soot on that side as compared with the other side. He attributed this effect to a reduction of the lymph drainage caused by immobilization of the respiratory movement Diminution of the thoracic lymph flow may at times be beneficial and at other times harmful Nageli concluded that the improvement after thora conlasty is due to a reduction of toxic absorption resulting from the reduction in the lymph flow. In experiments on animals. Bettman found that in the presence of pneumothorax the absorptive power of the pleura for India ink was reduced

Still more meager than our knowledge of the effects of compression therapy is our knowledge of the effects and potentialities of decompression ther However the strikingly beneficial effects of the withdrawal of air or fluid from the pleural cavity in cases of tight pneumothorax or large accumula tions of fluid suggest that in cases of severe dyspinera caused by extensive thoracic tumors a similar bene ficial effect might be expected from decompression induced by the removal of several ribs or by longi tudinal splitting of the sternum It is probable also that in certain heart diseases benefit might be expected from release of the pressure on the heart by cardiolysis or section of the ribs over the precordium RALPH B BETTWON M D

SURGERY OF THE ABDOMEN

GASTRO INTESTINAL TRACT

Galli G and Polacco E Experimental Physic pathology of the Stomach as Related to the Nervous System (Fisiopatologia gastrica speri mentale in rapporto coll apparato nervoso) Arch ital di chi 1028 XXII 260

By operations on the intrinsic and extrinsic nervous system of the stomach combined with partial or total ligation of the arteries of the lesser curvature the authors succeeded in experiments on dogs in changing the secretory and motor function of the stomach for a period of eight months and in bringing about characteristic anatomical lesions in a large percentage of the animals

The effects on the gastric chemism in the thirty seven experiments may be divided into two groups In the animals subjected to gastric denervation by Latariet's method and interruption of the vago sympathetic as proposed by Schiassi for ulcer of the duodenum there was a decrease in acidity and gas tric secretion and also in the peptic power. In the animals in which section of the vagosympathetic was done as proposed by Schiassi for gastric ulcer and accompanied by denervation of the lesser curvature there was an increase in acidity and peptic power These findings show that the nerves of the greater

curvature have an important effect on secretory

function Roentgen examination more than chemical examination showed the effects of the operations on the motor function of the stomach that is the changes in tonus and peristalsis and emptying time of the stomach In all of the experiments gastric tonus was most affected it showed hypotonia gradually increasing to atony with great retardation in the emptying time to as long as three times the normal Peristalsis was also affected there was a late decrease in peristalsis sometimes to a great de gree with few and shallow peristaltic waves. The marked retardation of emptying was an important factor Peristalsis was good at first but tonus was defective from the beginning The changes seen in the roentgen picture in the cases of animals subjected to Latarjet's operation indicate that intramural innervation is not capable of keeping up the normal motor function of the stomach contrary to the con clusions reached by some investigators

In the cases of three dogs the roentgen demon stration of gastric ulcer near the pylorus was con firmed at necropsy Gastric ulcer was produced in six of the dogs 25 per cent of those that lived more than thirty days The ulcers were seen only in those subjected to total or subtotal denervation with the addition of Schiassi's operation for gastric ulcer No ulcers were found in the animals subjected to Schiassi a operation for duodenal ulcer

The experiments show the importance of stomach innervation in the production of experimental ulcer particularly when there are other accompanying factors They demonstrate also that a certain degree of caution is necessary in operating on the nerves of the stomach for therapeutic purposes

AUTOREY G MORGAN M D

Radice L. The Physiopathology of the Gastric Secretion in a Small Stomach without a Pedicle (Contributo allo studio della fisionatol na della secrezione gastrica con piccolo stomaco sensa peduncolo) Ann stal di chir 10 8 vii 867

The author criticizes the method by which Pavlow and Orbeli form a small stomach and study its secre tion as he believes that their technique may not section all of the nerve tracts. In his own experi ments a tubular diverticulum was first formed in the stomach wall and left attached by its base and in a second operation performed from fifteen to twenty days later the diverticulum was detached from the stomach its base incised and a fistula formed from it through the skin. In the interval between the two operations the diverticulum had formed adhesions to the omentum so that its nutrition was ensured after its detachment

Three of the six animals died from retraction of the diverticulum followed by necrosis of its end and peritonitis The others were given various kinds of nutritious food such as milk bread meat and potatoes The secretion of the small stomach was then studied In one set of experiments the food was given by mouth and in another by rectum but in neither group was there any specific secretion from the small stomach The author therefore concludes that if the nerve supply of the small stomach is com pletely interrupted the stomach does not have specific secretion. He intends to make further experiments in which foods and stimulating drugs such as pilocarpin will be introduced directly into the small stomach to determine whether they will stimulate AUDREY G MORGAN M D specific secretion

The Etiology of Ulcer of the Greater David V Curvature (Actulone des Ulcus der Gro en Auf vatur) Acta chirurg Scand 1928 lxiv 329

The author describes two ulcers of the greater cur

vature of the stomach The first was an elliptical ulcer which developed in the deepest point of the prepylone part on the basi of necrosis caused by 50 per cent chloride of zinc The presence of cancer was suggested by total anacidity and the findings of roentgen ray examination The roentgen signs may be explained only by a circular spasm of the prepyloric part Resection by the Bill roth I method was following by primary healing The

histological appearance of the lesion was that of a chronic peptic ulcer with intense inflammatory infil tration extending into the muscularis and subserosa

The second uleer closely resembled macroscopically a simple peptic uleer but histological examination receited aleukarmic lymphadenosis A Billroth II operation was followed by healing

In 200 cases of gastroduodenal ülcer treated in the second surgical chinc of Charles University in Prague this rare localization was found only twice and in arither of the cases was there a true peptic ulcer

In a review of the literature on ulcer of the greater cursture since the Finaterer and Glaessner report in 1914 the author found iwenty four cases. In 466 per cent the lesson was proved histologically to be a true peptic ulcer. In 33 33 per cent it had a specific causes such as cancer tuberculosis or aleu kamue lymphadenosis. Twenty five per cent of the ulcers were pott examined histologically.

Wilkie D P D Gastro Enterostomy Sirg Gynce & Obst 1928 alvin 79

By some surgeons gastro enterostomy has been abandoned as a tentement for gastroduodenal ulcera too. By others at has been misused for the relief of gastro disturbances not associated with an organic leason of the stomach or duodentum. However if we consider the man, tens of thousands of persons who date their restoration to health from the time they were subjected to a gastro enterostomy, we must recognize that this operation had a large field of use fulness and will have a permanent place in surgery

The most effective surgical treatment for ulcer of long standing which has led to stenosis of the first part of the duodenum and distantion of the stomach is gattor-gunostomy. This operation is uniformly successful also as a supplement to the closure of a perforated chronic duodenal ulcer and in the majority of cases in which it is used as a supplement to textusion or cauterration of the ulcer it gives good

162/1113

In the author's cases, gastropiumostomy as precieded by the elimination of foot of infection in the teth. It is performed under general anaethesia supplemented by the local infiltration of per cent produced in the incision used is a vertical incision. The incision used is a vertical incision of the other incision used in the incision of the case of the or in the cases of viscreptive and ideely patients a mid-epagastric incision supplemented by incisions in the anterior layers of both rectus sheaths

The author believes that gastroduodenal ulcera tons and infections of the gall bladder and appendix are due to intramural streptococci. He therefore deals as effectively as he is able with all foci of infection

The gastro enterestomy of choice is the posterior fastive-interosity when it is possible. The most important single factor upon which the success of the operation depends is the site of the stoma. The stoma should be placed on thit part of the posterior wall of the empty stomach which is directly opposite beginning of the first coil of jejunum. The open lags in the mescolon must be adequate even if it is

necessary to sever the summit of the vascular areade. The stoma should be midde in a vertical direction across the long axis of the stomach. As a rule the author makes the anastomosis with clamps but in the cases of elderly patients and in difficult cases it is often best to dipense with clamps. In Wilkie's cases three lavers of tanned No oo catgut are in serted so as to control homorrhage but lightly enough to avoid devitalizing the itssues. The edges of the opening in the transverse mesocolon are tied to the stomach wall 2 in from the six of the hand to the stomach wall 2 in from the six of the hand to the stomach wall 2 in from the six of the hand to the stomach wall 2 in from the six of the hand to the stomach wall 2 in from the six of the hand for the stomach wall 2 in from the six of the hand favor healing of the ulcer by creating a temporary obstruction of the duodend ussassexus.

When a midline incision has been used the abdo men is closed so that the messal cut ends of the anterior rectus sheaths overlap the suture line of the linea alba. The rectus insused then bulges on each side of the closure line when the patient strains thereby releving the suture line of stress. Four figure of eight sift-worm sutures are taken through the skin and the sutured linea alba and tred over a

bolster

In the after care nothing is allowed by mouth for twenty four hours and for eight days the patient is kept on fluids and given an alkaline mixture. When there is heartburn or other evidence of hyperacidity.

intensive treatment with alkalies and atropine is given for the first few weeks STANLEY II MENTZER M.D.

Bastianelli P The Results of Resection of the Stomach for Gastric and Duodenal Ulcer (I rsultati della resezione di stomaco per ulcera gastrica e duodenale) Arch ital de chir 1928 VIII 127

The author reviews 75 cases of resection of van jung degree for active round ulcer of the stomach including excision of the leason segmental resection and more or less extensive subtotal resection of the stomach. In this senses there were a deaths. In the period from 1000 to 7018 Bastianelli used the Murphy button but since 1928 he has preferred direct suture.

Stomach ulcers are generally considered to be in fected and the danger of the infection is believed to be greater the less extensive the resection Panchet advises extensive resection but in the cases in which the author has done a circumscribed resection in fection has never developed. Bastianelli has per formed extensive resections only for the purpose of removing a large acid secreting surface. In none of his cases has a recurrence developed and in all of them the symptoms have been cured Bastianelli states that gastrojejunostomy is an irrational and unphysiological operation Roentgen examinations have shown that it does not hasten the emptying of the stomach does not increase acidity and does not free the gastric mucosa from prolonged contact with the stomach contents which are almost always by per acid Therefore the ulcer does not heal the pain

persists and there is danger of hamorrhage per foration and degeneration

528

Bastanelli has treated 17 cases of ulcre of the duodenum by duodenopulyorgastrections, and 45 cases of henge disease of the stonach, relateding plontis very severe hyperchiothy data and spasm of the piorus and plosas of the third described the stonach in the spasm of the piorus and plosas of the third disease who resection. In mether of these senses of cases we will be sensed to the sense of cases who will be sensed to the sense of the sense o

AUDREY G MORGAY M D

Miller G J A Study of 343 Surgical Cases of Intestinal Obstruction inn Surg 1920 letter

The mortality of acute complete intestinal obstruction ranges from 51 to 55 per cent. In 434 cases treated surgically during the last five years at the Chanty Hospital and Touro Infirmary. New Orleans including all instances of complete obstruction with the single exception of postoperature ileus agross control of the complete of the conagence of the complete of the complete of the gross control of the complete of the complete of the gross control of the complete of the complete of the gross control of the complete of the complete of the gross control of the complete of the complete of the gross control of the complete of the complete of the complete of the gross control of the complete of the complete of the complete of the control of the complete o

of recovery the mortality rising approximately 1 per cent for each hour Monnhain says that any mortality over 10 per cent should be regarded as the mortality of delay

The alternatives are death or surgery and it is

The alternatives are death or surgery and it is estimated that about 20 per cent of cases are oper ated upon with no more than a 1 or 2 per cent chance for recovery

The responsibility for delay may be with the patient the physician or the surgeon. The patient frequently treats himself for one or several days. Some patients are opposed to surgery preferring to trust themselves to the non-easient chances of recovery under medical treatment. Too frequently the physician is responsible for making laboratory. The packs of the invectorable ignorance or carelessuess of general practitioners who see these cases early and treat them medically thereby laying themselves open to actions at law for majorative in not for manipulpiter.

In 28 of the 32 cases reviewed in which operation was done after a delay in the hospital of from twelve hours to five days the surgeon was responsible for the delay and in this group there were 22 deaths

Operation for intestinal obstruction involves not only relief of the obstruction but also management

of the damaged bowel and combating of tozzma le se only in the early stages that ample relief of the obstruction is sufficient. The sequela media of the circulation damage to the bowel summer of the treatment of the more important than the mechanical obstruction itself. In the late stages relief of the obstruction was be dangerous in permitting the release of toxe substances into the intact bowel or the return of circulation to a necrotic loop Paralysis may persist after the relief of the mechanical obstruction Tozzmam may be fatal in spite of drainage. Even when the patient is seen early while still in experiently spool condition the tous may have be neverthead to the control of the control

produced in fatal quantities

The clinical aspect is the essential one yet the classical symptoms may be absent in the operable stage. A carefully taken instory frequently clinical permonitory, symptoms and Moynihan states that most abdominal catastrophes mark an abrupt frantion from the quiescent to the acute stage in a dos

order of long standing
Of the patients whose cases are reviewed by the
author 2,2 per cent had been operated uponmost of them for a pelvic condition or appendix or
The corresponding percentage in Finney's sensi of
cases was 40. In 14 of the cases reviewed by Milite
the operation had been done within the preceding

three neeks
The earliest symptom of acute intestinal obstruction is pain. This is usually sudden and acute if first colicty and internitient and finally continuous. When the mesentery is involved it is continuous. The continuous internities in the continuous internities in the continuous internities. The continuous internities is not internities in the case of the cases.

It is present in about 75 per cent of the cases.

Somiting also occurs in about 55 per cent of the cases. Its character depends upon the site of the obstruction. The development of true facal vomiting has been characterized by Handlev as not a 55 mptom of disease but a sign of impending death. In some cases its appearance to prevented by the presence of the obstruction in the small boat!

Absolute constipation is pathognomous whe present but is found in only about half of the case In intussisception and mesentent thrombost for equent passage of thin water, blood stained stock is more usual than obstipation. Obstruction to the control of the control of the control of and obstruction in the left half by durfine and and obstruction in the left half by durfine as To indeed the control of the longer the time occurs to demonstrate of the longer the time occurs.

Distention is present in only from one third to one half of the cases. It tends to be late in acute cases and is always late when the upper small intestness.

involved

Tenderness usually develops only after distention has occurred Rigidity is found with localized per tonitis but is not constant. Its absence different arts intestinal obstruction from inflammatory conditions. Visible peristalss is pathognomome but are

Of the cases reviewed by the author none pre seated the full classical syndrome

Shock is marked in certain types of obstruction It is always present in the early stages when the circulation is affected in the late stages with tosamia and when there is extreme distention The toxemia of intestinal obstruction is almost universally believed to be allied to surgical shock

As intestinal obstruction is not primarily inflam matory elevations of the temperature are not usual in the early stages. Subnormal temperatures are frequent. In approximately 71 per cent of the fatal cases reviewed the temperature was below normal or over 100 degrees F

Elevation of the pulse rate with a subnormal or normal temperature is a valuable aid in the diag nosis In the cases reviewed to per cent of the pa tients with a rate over 100 died and their deaths

constituted 50 2 per cent of the total mortality Practically all white cell counts over 12 000 were in the cases of strangulated or circulatory obstructions The chief chemical changes were a fall in the blood chlorides and a rise in the carbon dioxide combining power of the blood. There is a constant nse in the non protein nitrogen of the blood which when the patient is moribund may lead to a mis taken diagnosis of uramia

In the diagnosis a carefully taken history is of thief importance The symptoms and their relation to each other should be thoroughly investigated and special attention paid to the character of the pain which is the chief diagnostic sign. Mounihan says that any acute abdominal pain not promptly re lieved by a small dose of morphine indicates oper ation and other surgeons maintain that any ab dominal pain in a previously well person which lasts more than six hours justifies surgical exploration Subsidence of the pain may be misleading as it may be due to the development of gangrene

The physical examination should include auscul tation of the abdomen and digital rectal examination In the late stages auscultation reveals absence of all sounds except pulsation of the aorts Digital rectal examination may disclose an empty rectum with the walls crowding around the finger and above a sen sation of tremendous intra abdominal pressure Enemata will demonstrate obstipation only when

the obstruction is in the lower bowel

Laboratory procedures are of little help but annalysis should be a routine procedure A blood count is seldom of any particular value and de terminations of the blood chemistry are of no aid ray examination with barrium is contra indicated when obstruction is suspected

Operation is justified when there is a reasonable suspicion of intestinal obstruction Practically all conditions with which it may be confused are amenable only to surgical treatment When cardine pulmonary and renal disease are eliminated ex ploration is less harmful than delay

The most frequent causes of intestinal obstruction in adults are herma and malignancy. The most

common cause in children is intussusception. The small intestine is involved more frequently than the large intestine

The higher the obstruction the more quickly the symptoms develop the more rapidly the tour is formed the more senous the outlook and the greater the necessity for prompt surgical interven tion In obstruction of the colon the formation of the fatal toxin is slower but the prognosis is not correspondingly more favorable because in the ma sority of cases the condition is due to malignancy

The author compares the mortality of the various types of pathological lesions in the cases reviewed with the mortalities reported by Souttar and

Tuttle

The mortality is directly related to the duration of the illness. In the cases reviewed the mortality for the first twelve hours (20 4 per cent) was higher than the corresponding mortality reported by Bowers (13 per cent) Tuttle (4 per cent) and linney (s per cent) Miller attributes the difference to the fact that many of the patients whose cases he re views were ignorant and in such cases it is difficult to determine the duration of the condition exactly He states that the mortality after the third day is generally agreed to be not less than from 50 to 60 per cent

The type of operation performed must depend upon the patient's condition Taylor's grouping of cases based upon the patient's condition is recom mended. In cases of the first group the patient is seen early while in good condition and simple relief with routine care is sufficient. In cases of the second group the condition is still fairly good, but drainage of the bowel is indicated for toxemia either present or impending. In cases of the third group the patient is seen late his condition is poor toxemia is as important as the primary obstruction and only drainage by jejunostomy is warranted

In the cases reviewed resection of the bowel even with the added danger of anastomosis had a mor tality of 23 8 per cent whereas the mortality of apparently conservative treatment of gangrenous or merely suspicious areas of the wall by invagination or plication was 97 5 per cent Simple herniotomy had a mortality of 57 7 per cent due undoubtedly to unsuspected damage to the wall

The success of any procedure is based upon its relation to the pathological lesion and the condition of the patient. The experienced surgeon is content if he saves life even if he does not complete his

surgery

A gangrenous bowel should never be left in the abdomen whether it is drained or not. The short circuiting operation of Handley is valuable but is limited in its application Enterostomy is indicated whenever toxemia is a factor The loss of digestive fluids is decreased by the Witzel technique which also provides against the development of a fistula In malignancy of the large bowel excostomy should be a routine procedure. The two stage operation is generally preferable in this condition but immediate anasiomosi is almost essential when the small in testine is so involved as to require resection. Wilkies a method in which the fluid from an upper enteros tomy is allowed to return through a loner enter osigms, has considerable to recommend it.

The success of surgery in intestinal obstruction is based not upon the procedure adopted providing it stops the formation and absorption of the torin relieves the distention and establishes the fixeal flow but upon the adaptation of that procedure to the conditions present in the particular case

As intussusception and volvulus are prone to recur the faulty anatomy should be corrected if

the condition of the patient permits

It is almost universally believed that because of

the state of shock the blood changes the inhibition of peristalsis and the possibility of postoperative comiting which are associated with the condition spinal and local analgesia are preferable to general anæsthesia and especially to ether anasthesia for operation in intestinal obstruction. The author doubts the wisdom of a general application of this rea. oning In the cases reviewed the mortality of operations performed under local analgesia was 20 per cent higher and the mortality of those performed under spinal analgetia was 10 per cent higher than the total mortality. Although ether was employed most frequently the mortality in cases in which local analgesia was induced was 30 per cent higher and the mortality in cases in which spinal analgesia was induced was 20 per cent higher than the mor tality in cases operated upon under general anas Moreover the hospital using general thesia anasthesia in only 45 per cent of the cases had a mortality 15 per cent higher than the hospital using general anasthesia in or per cent of the cases and the surgeon using general anasthesia most frequently had the lowest mortality. The duration of the oper ation averaged twenty eight minutes more in the cases in which local analgesia was used and twenty seven minutes more in those in which spinal anal gesia was used than in those in which general anasthesia was employed Prolongation of the procedure and the excessive manipulations under spinal and local analgesia are of necessity deleterious when speed and gentleness are essential Moreover neither local nor spinal analgesia prolongs life However serious the patient's condition gastric

However serious the patient's condition gastric lavage and the administration of normal salt solution by hypodermochais or infusion are essential After operation the treatment should be based upon the requirements of the particular case. Continued gastric lavage is important. Chemical examination of the blood is essential as an index to the use of salt solution or glucose and insulin.

The work of Hermann at the Mayo Chine in regard to prophylactic immunization presents a strong argument for the two stage resection as at seems to prove that the higher resistance of the patient at the second operation is due to the production of an active local personnel immunity from the sosting of the first operation

Williams use of anti gas serum is based on the theory that the tovernia is due to the bacillus welchii and seems to have possibilities

Intestinal obstruction seems to be slightly more common in the colored race than in the white race and more common in males than in females

In the cases reviewed the ages ranged from thir teen days to mnety two years but nearly half of the patients were between twenty and fifty years o'd Thirty two and four tenths per cent were over fifty

years of age
In 16 cases treated medically the hospital mor
tality was 87 s per cent. The removal of a national

tality was 87 5 per cent. The removal of 2 patients from the hospital when they were nearly morphand explains who the mortality was not too per cent. In conclusion the author emphasizes that prompt

operation offers the only means by which the mor tality of intestinal obstruction can be brou ht within reasonable limits E S Platt M D

Smithles F Weissman M and Fremmel F Tuberculous Enterocolitis J Am M Ass 1928 201 1932

This article is based on eighty cases of dispepsion due to secondary involvement of the intestines by tuberculosis. Forty four of the patients were malest. The average age of the patients was thinty to sorrain and the average duration of the primity tuberculous of the lungs was two and six retails verse that the time of observation tubercle bixills were found in the soyutum in forty in the case.

Intra abdominal tuberculosis rarely occurs in maily in the stomach or the provinal two-thirds of the small bowel but in 95 per cent of the cases it in vades the terminal ideum the occurs the appendix the ascending colon or the rectosignois or the rectosignois of the cases in the rate of flow of the intestinal content in enterocolonic tuberculosis, whether acute or chronic there is unterference with the normal neuro-

muscular mechanism

Experience has subone that in approximately 60 Experience has a tuberculous exteroothis begins as a chaltwely well localized lesion. Frequently said localized lesion. Frequently are large has a chaltwely well localized lesion. Frequently in the female there may be a peritornal extension of tuberculosis in the fallopian tube or owny. There is evidence that at times the intestines become infected by way of the blood stream. In such cases the lesion are apt to be multiple and diffuse involving both the lesion are apt to be multiple and diffuse involving both the lesion and the cases the infection is carried by the lymph stream and the most market changes occur in the terminal ideum.

The authors divide cases of tuberculous entero-

Group 1 Those in which there is a mildly active or quescent pulmonary tuberculosis accompanied by dispeptic disturbances and abdominal examination does not reveal any striking physical anomalies

Group 2 Those in which there is an active of quiescent pulmonary tuberculosis associated with digestive disturbances of varying duration and abdominal examination reveals mild and often lo

calized physical anomalies Group 3 Those in which the pulmonary tubercu losis is commonly active but occasionally quiescent and accompanied by pronounced digestive disturb ances which are usually constant and abdominal examination reveals advanced physical anomalies

Of the cases reviewed seven belonged to Group 1 forty one to Group 2 and thirty two to Group 3

In cases of Group 1 the roentgen evidence is what is usually regarded as inferential Deforming lesions are difficult to demonstrate In cases of Groups a and 3 the roentgen studies almost uniformly reveal evidence of gross lesions seriously altering the shape of the terminal ileum and the colon

For cases in Group 1 in which the pulmonary lesions are not extensive and the bowel involvement is localized the authors advocate early exploratory laparotomy with removal of the localized disease whenever possible Tuberculosis of the appendix and fallopian tubes should be dealt with by excision In cases in Group 2 surgical exploration should be done only when the pulmonary lesson is not extensive or actively progressive and the bowel disturbance is limited In cases in Group 3 surgical measures are

contra indicated The diet given to patients with tuberculous en terocolitis should be such that little residue remains after digestive absorption Milk should be boiled or citrated When there is fever fluids should be pushed The fattening process common in the die tetic management of tuberculosis does more harm than good Heliotherapy seems to relieve the pain and increase the general comfort but there is con siderable doubt as to whether it has a healing influ ence on intestinal lesions. The bowel pains con stipation and other symptoms of early enterocolitis may be relieved by the free use of liquid petrolatum This protects the ulcerated mucosa against the trauma of the intestinal contents. In severe cases the use of opium bismuth or morphine is often necessary JOHN W NUZUM M D

Helistrom I Choleic Acid Enteroliths (Zur Kenntnis der Choleinsaeureenterolithen) ru g Scand 1928 luv 79

The author adds two cases of his own to the five cases of choleic acid enteroliths previously on rec ord and reports the clinical histories and the results of chemical analysis of the stones in the seven cases

Although cholese acid stones are made up chiefly of a biliary acid they are formed in the intestine instead of the gall bladder. This was proved by the fact that the gall bladder was found normal in the two cases reviewed in which it was examined by the presence of vegetable residue in the stones of two cases and by the presence of large numbers of bicteria in the stones in five cases

The stones seem to be formed as the result of a marked increase of choleic acid in the intestine con ceivably due to an abnormally rich excretion of odium glycocholate with the bile or as the result

of the union of deoxycholeic acid and higher free fatty acids in the gut itself

The production and growth of choleic acid entero liths seems to be favored by abnormal disintegrating processes due to bacteria as well as by mechanical factors such as strictures in the small intestines

All of the cases on record were those of women The voungest subject was thirty one years of age

and the oldest seventy five

At operation the stones were found in different parts of the small intestine between the duodeno jejunal flexure and the ileocæcal valve. In three cases they were associated with a tuberculous stric ture Their weight varied from 2 to 45 gm content of cholese acid was usually 75 per cent one case multiple concretions were found another a recurrence developed six years after the operation

There is no feature by which choleic acid entero liths can be differentiated before operation from gall stones which have escaped into the intestine or ordinary intestinal concretions. Their nature can be determined only by direct inspection and chemi cal analysis

Choleic acid enteroliths are dangerous and should be removed by operation. No instance of their spontaneous discharge except partially by vomiting has been recorded

In the three cases reviewed in which the stone was associated with a tuberculous stricture intes tinal resection was done with a good result. In the others the stones were removed by enterolithotomy but two of the patients died

Stone H B Chronic Ulcerative Colitis P nnsyl panta M J 1020 XXXII 211

Chronic ulcerative colitis is a condition of un proved etiology which presents a varied clinical pic ture It is resistant to treatment tends to recur causes grave disability and has a considerable mor tality Treatment is in general unsatisfactory Three classes of cases may require surgical measures (1) the relatively mild group that fail to improve in spite of medical methods and result in chronic invalidism (2) the persistently recurrent cases and (3) the ful minant cases with great loss of weight marked anzemia and asthenia In these three types of the disease operation should be performed before the general condition becomes critical and before systemic infection develops. In general, the operation of choice is ileostomy but under special conditions other surgical procedures may be preferable

Meisen 1 The Injection Treatment of Hæmor tholds 4cta chiri rg Scand 1928 lxiv 311

Having treated 1 700 cases of varices by injection the author first reviews his impressions of this treat ment which were published in the 1cta chirurgica Scandinarica three years ago. He states that in Denmark the injection treatment is now generally preferred to operative treatment for varices. The

MANUEL I LICETENSTEIN M D

last advance is the use of a 50 per cent solution of glucose for the injection of small thin walled varices this agent being painless and producing no necrosis

In the treatment of harmorchouls, the injection method has been used by the author with good re sults in 100 cases. In one case, however an abscess and anal fistial developed as the result of necrosis three months after the injection of an internal harmorrhoid. The indications for the injection harmorrhoid. The indications for the injection of the injection of

necessary
The humorrhoids are brought down outside of the anus by means of suction with Biers cup or by making the patient to bear down against the explor maging finger. An injection of about 1 c cm of move came is then given and followed by 1 c cm at the most of a solution containing quinine chloride of sethylurchian or 35 and distilled water to make 2 c cm. It must be borne in mind that the hemorrhoid may counsif of a pleus of dilated venus or a simple counsit of a pleus of dilated venus or a simple

Meuseo believes that the injection method should take the place of surgery in the treatment of hemory founds because it is painless does not confine the confine the surgery of the place of the painless of the place of the plac

LIVER GALL BLADDER PANCREAS AND SPLEEN

Lindquist S Four Cases of Abscess of the Liver Following Appendicitis (Quatre cas d abces du fore conscrutis à l'appendicite) Acta chirurg S and 1018 Eury 253

The author reports four cases of abscess of their following acute gangerous appendicutes with purulent peritonitis. In all of them there was an irregular (septic) fever and in Cases 1 3 and 4 this was the the only significant symptom during the greater part of the peritod of between the following the peritod of the control of the cont

and in Case 4 there was only signt pain on pressure In Case 1 in which the appendetcomy was done the second day after the beginning of the append to its the abscess probably developed from a retroescal infection about the thirteenth day after the opera tion. The pattent died on the twenty fourth day Autopsy showed a solitary abscess in the center of the 17th 10b of the liver.

In Case x the appendicuts began with very severe symptoms—chills acterus the appearance of blood in the unne and marked deterioration of the general condition. Autopsy revealed multiple abscesses in the liver.

Case 3 showed no symptoms except a septic temperature until the teen't sextil day after the operation when \(\) ray examination revealed elevation of the disphragm on the right side \(At laparotom \(\) alreg large abscess surrounded by small abscesse via large abscess surrounded by small abscesse via found in the center of the right lobe of the liver. The patient died about fourteen days after the calculated the control of the liver abscess and two days of the liver and the liver abscess and two days was probably a thrombophicipus the omental von extending toward the portal von

Case 4 showed only a septic temperature until the thirty fourth day after the appendectomy, when the patient complained of slight pain opposite the ninth and teath ribs and at this spot a slightly diminished resonance was noted. Puncture evacuated pus. Operation with resection of the tenth rib and the sapiration of about 40 c cm of pus was followed by recovery

Cacconardi G Multiple Miliary Abscesses of the Liver Laparotomy and Vaccine Therapy Recovery (Ascess mighan multipli del feato laparotomia e vaccinoterapa guarigione) lan ital di chir 1923 yi u 36

The patient whose case is reported was a man forty seen years of age with no history of special importance except that he had had malara when young His present illness began in September 105 with digestive disturbances and fever. The fever was at first slight but increased to 40 de, rees? I ad became continuous. The patient then had frequent chills and attacks of sweating in the morning. After about a month he began to have pain the state of t

Injections of emetin and urotropia were without effect but after any progenic vaccine treatment the patient was discharged well in three months. He re mained well for about six months but in May 1027 he began to have high fever associated with intense

pan in the right hypo.hondrium and somiting At operation performed on May 29 1927 the spleen and hiver were found enlarged and the who surface of the liver covered with innumerable small yellowsh white spots Exploratory puncture do not show any large absets and examination of the bile ducts was negative. As nothing could be done the abdomen was closed. Recovery was uneventful.

A few days after the operation s accine treatment was begun again anti-colon bacillus and polyvalent anti staphylococcus vaccines being given on after and days. The do age was at first 50 million terns and was increased to 3 billion in addition untravenous injections of a great condition in untravenous injection of a great condition of the color of the c

spicen was still enlarged but the liver had returned to its normal size

The lessons in this case tould not have been simble abscesses as in amorbins the abscess is generally solitary the patient had never suffered from disenter, and treatment with emetin was meffective. The route of the infection must have been a retograde route from the doudenum Excellent recovery resulted from a diet which spared the liver the intravenous injection of unotropin by podermodysis vaccine treatment and exploration of Auditory G Violecus Moy operation.

Robbiani A The Late Results of Cholecystectomy for Calculous Cholecystitis (Estudio del post p ration) alejado de los cofecistectomizados por colecistitis calculo a) B l vist d clin giur 1928

Robbian reports in detail 20 cases of calculous colocystitis treated by cholecystectomy. The results show that cholecystectomy is an extremely aluable operation. Fifty per cent of the patients are completely cured and 45 per cent were greatly benefited.

Serious accidents following the operation are very 12 e In reviewing the histories of 8 700 cases in which cholecystectomy was done the author found only 3 that required re operation-2 for a new growth caused by the calcult and 1 for cicatrical con striction of the common duct Sequele due to peri duode al adhesions recurrences calculi overlooked or injuries of the common duct can be reduced to the minimum by a careful surgical technique and very careful explo ation of the abdominal viscera near the gall bladder Slight disturbances such as gastric symptoms and continuous subhepatic pain are often caused by periduodenal adhesions. Intermittent attacks of pain are evidently due to inflammation of the common duct. They are very frequently of the type of hepatic colic and are occasionally accompanied by fever and sometimes by a slight subjecteric color but they are always shorter and much le s in tense than the attacks of pain preceding the opera ion All of the author's patients with such dis turbances led an active life and the symptoms tended to disappear with proper diet and medical treat ment The slight disturbances in the author's cases were not caused by insufficiency of the liver as functional tests showed hepatic function to be normal In 80 per cent of the cases the cholesterin tortent of the blood was below normal while in 20 per cent it was sightly above normal

Roentgroograms showed that penduoderal as tooms are almost almays formed after the operation varies the technique used nor the method of dram ascepalans, them in some cases in which there was strophic sclerosis of the gall bladder or intense periodecytists the roentgem malformations of the duodenum were greater. Even ideal cholecystectomy, with perfect perioducation of the bed of the gall bladder does not prevent postoperative perioducant i entwodential deep not almays cause.

clinical symptoms and when it does produce them they are not proportional to the degree of roentgen malformation of the duodenum

The Melter Lyon test shows that when cholecys tectomy has been performed recenfly the provoked bile has a poor concentration and is as pale as Bile A in cases in which cholecystectomy has been performed some time ago there are a types of provoked bile. The first type is light in color and poor in concentration and the second is as dark as the B bile of normal subjects but lacks the concentration of a true B bile which is 3 or 4 times greater than that of a bile.

Llambias J Brachetto Brian D and Orosco C Cancer of the Ampulla of Vater (Contribución al estudio del cáncer de la ampolla de Vater) Semana méd 1078 vvv. 649

The authors report four cases of cancer of the ampulla of Vater. Three were those of men forty two fifty one and forty years of age and one was that of a woman forty one years of age.

the transition of sacro of the ampulla of vater attains from tension assall, develop, early but under certain circumstances may not appear. The tumor is generally small and portudes into the lumen of the duodenum. It may invade the muscle tunic of the duodenum. It may invade the muscle tunic of the duodenum as more of the authors cases and may extend to the pancreas as in two of the authors cases. In the Cases reviewed the incidence of extension into neighboring organs was very, high Vestastases are rure probably because retention of bile causes death before they have time to develop in the authors case with extension to the pancreas there were also metastases in the periduodenal glands the liver and the perioardjum. Cancers of

common duct origin seem to be most frequent. The climed diagnosis of cancer of the ampulla of later is relatively difficult. The neoplasm may be confused with cancer of the head of the pancreas or of the bile ducts with ulcer and with lithways. Sometimes a cancer of the ampulla of later may cause reflex pilone symptoms and conversely a lesson of the pilorus may cause vaterian symptoms.

It is impossible to make a histological classification of these tumors as each of the organs from which their may originate—the common duct. Wirsing a duct and the duodenum—give rise to epitheliomata which cannot be differentiated from each other. These neoplasms are of a cylindrical type. They may or may not be purely acnous.

The treatment of cancer of the ampulla of Vater is surgical Operation at least prolongs life sometimes for quite a long time ATDREY G. MORGAN M.D.

Petermann Closure of the Abdomen without Drainage in Operations on the Bile Fracts (Zur Frage de drainagelosen Bauchschlu ses bei Opera to sen an den Callenwegen) Z nirabli f Chir 1928 p 2146

l etermann's report is to be considered a repli to
the publication of Fribram who advocates primary

closure of the abdomen after all gall bladder opera Petermann disagrees with Pribram on the basis of his results in a very extensive material Petermann has employed charring of the mucosa, the so-called mucoclasis for many years. He agrees with I ribram that exact peritonealization of the cystic duct stump and the gall bladder bed is most important Thus far he agrees with Pribram However he completely closes the abdomen only if the gall bladder bed is peritonealized the liver bed is unin jured and the cystic duct stump is satisfactorily closed and covered with peritoneum. The last how ever is not always possible particularly if the com

mon duct has been explored The author's objections to primary closure are based further on the fact that suture of the common duct is not always reliable that drainage of the hepatic ducts is indispensable in severe cholangeitis with our and fibrin formation in the bile ducts and that no unperstonealized surfaces can be left behind The disadvantages of drainage mentioned by Pri bram are not all due to the dramage alone and it would be extremely dangerous if Pribram's recom mendation were followed indiscriminately by inex

perienced surgeons

Petermann then discusses the late results of bile tract surgery Of 680 patients who were followed up (80 per cent of the total number) 540 (85 per cent) were symptom free 70 (10 per cent) had mild symp toms 34 (5 per cent) were unrelieved and 41 had a herma Most of the herma followed mid line inci sions According to Petermann adhesions are of little importance only callous scars fixing the py lorus to the liver necessitate re-operation. Adhesion formation is reduced to the minimum by careful peritonealization of the gall bladder bed and restriction

of the use of packs. True recurrences are very rare Petermann found new concretions in the common duct only twice Squeezing of the gall bladder con tents into the common duct should be avoided by first emptying the gall bladder with a water pump and then clamping or tying the cystic duct Teter mann has seen 5 stenoses of the common duct. Three were cicatricial and were carcinomatous Some times so called recurrent colics are due to dilatation and tension of the bile tracts Functional processes also play a rôle According to Petermann's expen ence the more marked the findings at operation the better the results Frequently the administration of a 10 to 20 per cent magnesium sulphate solution has a favorable effect Pancreatitis is also a cause of late symptoms. In mild cases the treatment indicated is dietary measures and the administration of insulin In severe cases surgery is necessary Gastric and duodenal disturbances following operation are best treated dietetically Petermann has seen definite gastric or duodenal ulcer v times. In 2 cases the lesion was certainly not present at the time of operation but in the others it may have been overlooked Chronic appendicitis and diseases of the kidney and ureters may also cause persisting symptoms Leter mann was able to demonstrate the very important fact that when appreciable late symptoms occur the disease has usually existed for a long time before operation therefore early operation should be per formed In the discussion of this report MARTENS and

Mr. Fusam agreed with Petermann

PRIBRAM Again recommended his method in a lengthy presentation

NORDMANN and BIER stated that general abolition LOGELER (Z) of dramage is impossible

GYNECOLOGY

DTERUS

Basset A and Poincloux P The Treatment of Metritis by Intramucous and Submucous In jections of Vaccine Local Vaccination (Traite ment des métrites par injections intra et sous muqueu es de vaccins la vaccination régionale) G) néc et obst 1028 T1111 280

This is a study of local immunization as applied to the atterns

The u e of local vaccination requires a knowledge of the infecting agent and the tissue through which the infection has occurred. The object is to increase the resistance of the tissues constituting the portal of entry In the case of the uterus this is accomplished by submucous and intramucous membrane injections of varcine

The contra indications to this method of treat ment are few pregnancy and a poor general con dition (the latter especially when it is due to tuberculosis) The authors have had experience with all forms of metritis except the acute puerperal

In the course of a three year study the following methods have been developed

The patient is carefully examined both from the general and gynecological standpoint history some idea can usually be obtained as to the nature of the infection-as to whether it is gono coccic or puerperal The local examination is made at least twenty four hours after a douche Smears are taken from the cervix and for the culture mucus is placed in 6 or 8 c cm of normal saline solution for transportation to the laboratory The specimen is placed in boullion and on ascites agar or blood agar After from twenty four to forty eight hours colonies are picked and transferred for identification final cultures serve as a vaccine to which is added a stock gonococcic vaccine if it appears that the gono coccus was the original invader. The vaccine is heated just sufficiently to inactivate it

The treatment consists of from 4 to 10 injections made beneath the mucosa in the vaginal portions of the cervix that show pathological changes and finally in o the mucosa of the canal A 2 or 5 c cm svringe is employed with an extension and a fine straight needle an apparatus identical with that employed for the injection of an anæsthetic about the tonsil The total quantity of vaccine administered at a single treatment is from 05 to 3 ccm While the injections alone suffice it is believed advisable to dilate the cervix with a 3 valve Sims speculum or a long forceps before each treatment

There are no local effects of consequence but a general reaction often of considerable violence soon follows the injections The usual symptoms are a

chill fever headache nausca and general malaise When a gonococcic vaccine is used these symptom appear within from fifteen to thirty minutes The duration of the reaction is usually from three to six hours and occasionally from ten to twelve hours Following the use of colon bacillus vaccine the re action develops more slowly and may last twenty four hours and gastro intestinal disturbances are more prominent. As the treatment progresses the symptoms become less violent and this change

parallels the progress of the cure Of the women treated 29 were examined with re gard to the end results Nineteen (65 per cent) were completely cured 8 (27 per cent) were greatly benefited and 2 were unrelieved. The last were suffering from severe tubal lesions which caused re neated reinfections of the uterus. Of the patients cured some had salpingitis and parametritis. These lesions subsided with the metritis. In s cases there was involvement of the body of the uterus which caused persistence of the leucorrhoga. To treat this complication a special sound was devised to permit injections into the endometrium. The results were comparable to those obtained in the treatment of the

cervical lesions In the course of this study certain facts were brought out relative to the flora of the uterus. The organisms are classified as saprophytic and patho The saprophytic group include the coccus vaginalis (the same shape as the staphylococcus but with different staining qualities) and the bacillus vaginalis. Numerous varieties can be distinguished but they are without clinical interest. The patho genic organisms include the gonococcus colon ha cillus staphylococcus enterococcus streptococcus and diphtheroids

The gonococcus is not infrequently found in the smears but rarely in the cultures (3 times in 152

The bacillus coli is of great importance in uterine infections It usually appears in the cultures rather than in the smears

The staphylococcus seems to play a minor rôle The staphylococcus albus is the type usually found and relative to its pathogenicity it stands at the end

of the long series of cocci vaginalis The enterococcus plays a certain part in metritis but was found only 5 times in the series of cases

reviewed The streptococcus is quite often identified in smears but is grown with difficulty on culture media

Diphtheroids were identified 5 times

Other pathogenic organisms sometimes found are the pneumococcus Friedlaender's bacillus Pfeiffer's bacilfus and sarcinæ

The disagreement between the information furnished by smears and cultures shows that bicterio logical examination alone is not enough to establish the etiology of metritis. It is only by combining the bacteriological and chinical findings that an approach to a disensois can be made.

Certain facts concerning the relation of the causa tive organism to the reaction to the vaccine are

brought out

When an autogenous vacuue produces no reaction the organisms are of the non pathogenic or only alightly pathogenic variety. When an autogenous vacuue alone causes a reaction it usually contains colon bacilli enteroocer; or staphylococci. When an autogenous vacuue produces a reaction but a stock gonococce vaccuue produces a reaction the patients is visually suffering clinically from a gonococcic in fection. When an autogenous vaccine together with visually suffering clinically from a gonococcic in fection. When an autogenous vaccine together with the contained of the patients of the clinical from consideration. When an autogenous vaccine produces a reaction and this reaction is strengthened by a reaction and this reaction is strengthened by a

tient is found chincally to be suffering from gon orthocal metrics.

On the basis of experiments on patients the authors advance the hypothesis that the general reaction is dependent not only on the use of the proper vaccine but also on the board of injection (that it to say the potal of entire of the original meterion). This theory seems well supported but only the proper potal of the properties of confirming the chology of the metrits. The authors conclude that when a given, vaccine is injected into

minimal quantity of gonococcic vaccine the pa

the cervix or one of the vulvar glan is and a general reaction follows the organism from which the vaccine was made may be regarded as the cause of the

metritis
The authors classify metritis into that of recent origin and that of long standing. The former in cludes the pure genoncoccie metritis metritis due to suffering from chronic intestinal disorders fair my operating group) and purpersal infections caused by streptococci staphylococci gonococci or the colon bacillus. The old cases are due to one of the same organisms with often belong, organisms which often belong, the mind it is possible to undertake an etiotropic treatment which promises address are desired to the colonic organisms which care belong to the colonic programs of the colonic programs of the colonic programs or the colonic programs or the colonic programs of the colonic programs or the colonic prog

Capecchi E Acute Complete Retention of Urine and Delivery of a Large Fibromyoma (Riten ione urnama acute completa e contempo anto parto di un voluminoso fibro mioma) Cl. a. est i. 1918 xxx 654

The case reported was that of a woman forty four years of age who had had three normal delt eries in October 10:05 she began to have a more copious menstrual flow than usual a discharge of sero sanguinolent fluid between the periods and a feeling of weight in the lumbar region. The symptoms in

creased and on locember 15 1926 she suddenly became unable to urnate Thereafter catheteriza tion was necessary and there was pain which in creased until it had the character of labor pain

On the patient's admission to the ho pital on November 19 1996 estimation showed a hard would fibromisom the six of the head of a fetu which occupied the vagin. Under either anasthesia it was delinered by each hing it with Museur forest and gaving it a notating motion. It was attacke lo and gaving it a notating motion. It was attacke lo may be a support to the six of the

Retention of urne is not an infrequent complication of fibroma of the utens but it is generally in complete. The pressure of the tumor and its traction on the urefer cause disturbances of the cruckino of the bladder and pelvis until some added factor probably menstraal conjection exceeds the limit of tolerance and urnation becomes impossible. The contractite capacity of the uterine musculature can be utilized in the removal of a tumor as well as in the delivery of a feture. At Pagart Morey WD

Hana O The Early Diagnosis of Cancer of the Uterus by Means of Smears (La diagnosi proceedel cancer uterno mediante lo striccio) C n of 1

\$928 xc 38c As there is danger of stimulating the growth of cancer by excessing tissue for examination Babes has recommended making the diagnosis from smears According to Babés technique the cervix is niped with gauze and the material taken with a pla inter loop fixed with alcohol and stained Canter is characterized by penetration of epithelium into the deep tissues and atypical forms of epithelial cells The latter appear first and can be cen in smears Babes cons ders the smear method a limited biopsi In examinations of twenty cases by this method he found that in > mple erosions erythrocytes pre dominate and there are few cells. In cancer the protoplasm of the cells is g eatly reduced and often nothing is left but the nucleus. Somet mes there is more protoplasm and the cells have various forms The nuclei may be fu form mulberry shaped bilobulated or multilobulated. The greatest change in the cells is the increase in their size they are often true grant cells. The nuclear chromatin may be in the form of oval semilarar or angular granules of varying size Th nucleoh also vary in number size and staining capacity Babés says that from these characteristics the dia nosis of cancer of the cervit can be made from sm at in a large number of cases

The author has examined twolve cases by the smear method and includes in his article photometry people who in many rounts confern the many rounts confern the smear indicated chororephthelioms but his day creas has not confirmed by hopey in the case of cancer the findings in the smears seer confirmed by those of buspers. A transfer of the case of cancer the findings in the smears seer confirmed by those of buspers.

Gellhorn G Syphilis and Cancer of the Uterus

The author discusses first the differential diagnosis between syphilis and cancer of the cervix. A number of case histones are given to illustrate the mistakes in diagnosis. The differentiation is not always easy in the cases of young patients syphilis should be thought of first. Even a definite history of syphilis does not exclude cancer.

Except in cases with ulcerated gummata sponta neous bleeding is less frequent in syphilis than in cancer but on touch cancer bleeds more easily than a syphilitic lesion. I ain on palpation seems to be ge ater in primary and secondary syphilis than in the early stages of cancer A marked general reaction is produced early by syphilis but occurs late in cancer The consistency of the new growth is a valuable diag nostic point A syphilitic lesion is hard in the depths because of the infiltration. In cancer, the finger can always break through into deeper layers to soft spongy tissue Yellowish discoloration relieved by a reddish undertone is pathognomonic of syphilis If in a suspicious case the affection is separated from the external os by a zone of normal mucosa the diag nosis of syphilis may be made safely Microscopic examination settles the diagnosis in most cases Spi rochates are usually recoverable from chancres al wass from secondary ulcers but rarely from gum mata Other affections of the cersix should be ex cluded In doubtful cases anti syphilis treatment

should be given. When cancer occurs in a syphilitic it will always sek the vulnerable spots which have already been sik the vulnerable spots which have already been to spot always due to spiblis and may sooner or later develop into cancer. The direct transition of syphilis into cancer is trace.

Mamanni R Carcinoma of the Uterus After the Menopause (Osservazioni sul carcinoma uterino oltre la menopausa) Riv (al di ginec 928 vii

The author has studied his cases of carcinoma developing after the cessation of menstruation to determine whether such carcinomata are different in nature and course from those developing during active sexual life He found that carcinomata at the later age are somewhat less malignant and their clinical course is somewhat different The most marked symptom is a yellowish or whitish discharge the corious hamorrhage caused by carcinoma de veloping at a earlier age is rare. In a few cases (1 8 per cent) the first symptom was abdominosacral pain In some of them the patient had noted a discharge for only a little while but when examination was made the tumor had already passed the limits of operability Brief histories are given of two such cases in one of which the patient had noted a dis charge for only five days before she entered the bo pital and in the other of which a discharge had been noted for only a month Sometimes however the period is very long. Two other cases are reported in which the patient had had a discharge for five years
The average duration of the disease was from three

Interesting duration of the disease was stort three to four years whereas in women in active sexual life the average duration ranges from a few months to a work. Women in the menopause do not show so much phi sical deterioration or cacheria as younger women. Ipparently the older organism is more resistant to the diffusion of the cancerous process and less sensitive to its towns. The older women frequently die from intercurrent disease rather than from the cancer itself.

Of the author's cases \$5.22 per cent were in operable whereas the incidence of inoperability in younger women is 50 per cent. The higher incidence of inoperability after the menopause is probably due to the midliness of the symptoms which delays the diagnosis. Recurrence is less frequent in the late cases it developed in only 10 per cent of the author's cases as contrasted with 10 per cent of the cases of to supper women reported by Faure.

cases or votings when reported or Patier Alamann obtained good immediate results in fifty one (86 44 per cent) of his fifty nine cases. The operative mortality was 15 25 per cent. Eighteen of the patients are now living with no signs of recurrence after a maximum time of eight years and a minimum time of three vears.

Alamanni states that simple total abdominal hysterectomy is as effective in these cases as Wertheim's operation and less dangerous

He attributes the decrease in the malgrancy, of carrenoma after the menopause to functional changes taking place at middle age particularly the decrease in the activity of the ovary and chromafin system. It is not due to the histological type of the cancer as the lesions in most of his cross were pavement cell epithehomata which are not particularly being cancers.

ATREXY G. Mosans M.D.

Schneidewind O A Case of Primary Polymor phous Sarcoma of the Uterus with Various Metastases (Un caso de sarcoma primitivo pili morfo de útero con metástasis diver as) Semani # d 1228 xxvv 750

The patient whose case is reported was a woman fifts four vears of age who was admitted to the hospital with a diagnosis of fibroma of the uterus which had undergone malignant degeneration. Subtotal hysterectioms and bilateral outphorosalpin gectoms were performed. Death resulted.

Autops showed that the lower part of the uterus was changed into a yelowish white mass with slight was changed into a yelowish white mass with slight was changed into a yelowish white mass with slight potential to the time of the amounting which potriuded into the lumen of the amounting which learn three was a hard white tumor the since the learn three was a hard white tumor the bean. The abdominal cavity contained about 12 liter of himmorthagic fluid I noth lungs there was a series of metastatic nodules ranging in size from that of a must othat othat othat of a must othat of a must othat othat

posterior angles of the first 4 ribs and the anterior angles of the first 2 ribs on the right side had been invaded by the tumor. Examination revealed also fatty degeneration of the liver congestion and orderna of the lungs and atheroma of the aorta

The tumor was a spindle celled sarroma of the uterus evidently originating from multipaint de generation of a fibroms. Signs of multipaines were noted for only a few months before the patients admission to the hospital. Sarroma of the uterus is area in 1025 Bunten said that only 353 cases had been created. Round and oval-celled sarromants consistently and the same of the celled sarromatic.

ADNEXAL AND PERIUTERINE CONDITIONS

Orr J L An Unusual Case of Tubo Ovarian In guinal Hernia Glasgow if J 1929 cm 21

The case reported was that of a girl surteen years of age who had had a painful inguinal hernia on the left side for twile months. The pain was most se vere during menstruation. At operation the hernia sac was found to contain the overy and the distal part of the fallopian tube. The proximal portion of the tube ended hindly.

Or reverse is the literature on malformations of the tubes and gives a brief account of the embryology of the intension general organs in the female Tubal mal formations have been ascribed to an error in development and to fetal peritonitis. Neither theory is entirely satisfactory, but the developmental theory seems to be the more acceptable

T FLOYD BELL M D

Callahan W. P. Schiltz F. H. and Hellwig C. A. Primary Carcinoma of the Fallopian Tubes. Associated with Tuberculosis. Surg. Gynec &

Ob t 1929 xlvm 14

The simultaneous occurrence of primary carcino
ma and tuberculosis of the fallopian tubes is exceed
inally rare

The diagnosis of tuberculosis of the tubes is difficult to make chincilly because of the absence of distinctive chincal symptoms. Frequently 1:1 tupossible without microscopic examination. The condition is most common between the ages of twenty and forty years. The infection is rarely primary indictive to the property of the contractive property of the

in the like to forty eight hours before the men strail flow pain and tenderness are noted in the lower part of the abdomen. As a rule there is a hight elevation of the temperature toward evening in most cases pelvic examination reveals industation in the formers faintion of the cervic enlargement and retroduplacement that the control of the cervic enlargement and retroduplacement the state of the control of the cervic enlargement and retroduplacement the state of the control of the control of the control of the cervic enlargement and retroduplacement the and the ovaries. The adherance is the control of the cervic enlargement and the cervic enl

The onset is insidious. In most cases there is a history of pleurisy and enlarged glands. A primary tu becculous lesson elsewhere climinates gonococcic and streptococcic salpingitis. A definite diagnosis may sometimes be made from curetted material.

Opinions vary as to the advisability of surgical treatment although the incidence of permanent cure in surgically treated cases has been reported as 66

per cent

Primary carcinoma of the tubes occurs most frequently in the late prechinenters or early spotch macteric period between the fortieth and fifty fifth year. The most constant symptoms are pain a docharge irregularity of menstruation under amplied continuous or intermittent pain in the hypogastre that or lumbar region on the same side which may radiate to the sarrium the lower extremities the rectum or the engastrum and is sometimes relieved to the continuous or discharge from the vagina. The discharge from the vagina. The discharge from the continuous of the continu

Physical examination reveals a mass in the pouch of Douglas or on one or both sides. The mass wares in size from that of an egg to that of a man shead. The results of surgery are often poor because the operation is too conservative the uterus or ovaries being left or because tubal contents escape into the

abdominal cavity

Primary carroom associated with tuberculous of Primary carroom associated with tuberculous of Primary carroom found most frequently in second most of the reported cases the pathological pic ture suggested that the inflammatory process and dated the nepolator growth. Some investigation have assumed a direct relationship between the issues but it is generally believed that one is not considerated that the process of some but it is generally believed that one is not considerated that the process of action process the only chance of ture

MACVES P URVES M D

Schugt P Experimental Studies on Injury to Offspring from Roentgen Irradiation (Expenmentelle Untersuchangen unber Schardgung d' Nachkommen durch Roentgenstrahlen) Sträkler therappe 1928 z.vvu 546

Suity mice free from inbreeding were irraduated in 40 70 54 42 27 21 24 and proengen units from a Martin Coolidge tube (180 kv 2 ma /) mm Cu plus 3 mm Al) and fifty three mice were irraduated with a soft tube (100 kv 2 ma 1 mm Al) After irraduation they were paired in very possible combination in the different generations.

From the numerous tables and combantous for which the original article must be consulted it is evident that the irradiation caused injury to the offspring which was manifested by under-development and decreased ferthity Injury to the offspring evidenced by malformations due to text uterus evidenced by malformations due to text uterus disturbances of development resolting from the construction of the construction of the construction of the supervision of the construction of the construction of the laws of the construction of the constructi

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Lyon E C Jr Angemia in Late Pregnancy J

This strick is based on blood counts and harmogloba determinations made during the third times globa determinations made during the third times let of pregnancy in the cases of 200 women delivered the botherical division of the Woman is Hospital New York. In the 177 cases in which the determinations were made at term the average harmoglobin vals 753 per cent. Fifty seven (3.2 per cent) of the 177 cases of the 177 cases of 177 case

Of a control series of 100 non pregnant women with retroversion of the uterus a similar percentage were found to have a hamoglobin value of 70 per cent or less on admission to the surgical wards

Of 42 women who had repeated blood counts during the third trimester of pregnancy 16 (38 per cent) aboved a gain and 20 (47 6 per cent) a fall in the hamoglobin Carl H Davis M D

Erans W Severe Anæmia of Pregnancy and the Puerperium Lancei 1929 ccxvi 14

Severe anarmia of pregnancy and the puerperium is uncommon Osler attributed it to hamoly tic agents produced in the changed metabolism of pregnancy or the katabolism of the postpartum state Rowland assumed that under normal conditions a syncytial hamolysin is formed in the ectodermal cells of the thorion during pregnancy and that later an antihæ molysin is found in the maternal blood. He ascribed persistent anæmia to failure of the formation of the antihemolysin Smith considered a deficiency of hy drochloric acid a probably etiological factor and as treatment recommended the administration of hy drochloric acid Other conditions which have been suggested as predisposing to anientia in pregnancy and the puerpersum are achlorhydria and general de bility before pregnancy syphilis and a predisposi tion to anamia

The anama of pregnancy simulates addisonian anama being characterized by a great reduction in the erythrocytes the presence of primitive red cells an increase in the reticulocyte count shight splenic and a favorable response to liver therapy.

When once established the condition tends to regnancies and in each succeeding pregnancy is more pronounced and earlier in onset Premature labor is the rule.

It is important to recognize the disease in its initial stages and to begin treatment before labor. The prognosis is good the response to liver therapy being almost immediate. MacNEP Upwes M.D.

Westman A Two Cases of Necrosis of the Renal Cortex in the Toxicosis of Pregnancy Acta obst et gance Scand 1928 vii 235

obst et gynee Scand 1928 vii 235

The author describes the renal changes in two cases of eclampism In one of them he found on tical necrosis caused by thrombosis of vessels followed by infarction and in the other a nephrosis associated with necrosis

Falls F H The Diagnosis of Fetal Deformities in Utero Am J Obst & Gynec 1928 xv1 801

The diagnosis of fetal deformity is very important from the standpoint of both the mother and the child. When the fetus is markedly deformed—for example an anencephalic monster—the management of the case may be planned solely in the interests of the mother.

The methods of diagnosing fetal deformity include palpation percussion auscultation and \text{ray} are examination By means of the \text{ray} are certain diagnosis can be made in practically every case after

the seventh month

Hydramnios developing about the seventh month

and associated with a permanent increase of the uterine tension and easy ballottement is suggestive of fetal abnormality but is not constant. Inability definitely, to outline the fetal head suggests anen cephaly while abnormal size or consistency of the fetal head undicates hydrocephalus. In cases of anencephaly considerable difficulty is experienced in differentiating between the fetal poles by pal pation and when the presentation is cephalic a soft meningocile surrounded by a bony ring may be lelt on vaginal examination with the finger inside the cervix.

When there is marked hydramnos the fetal heart tones are head only faintly or not at all During pregnancy they are usually normal or rapid but during labor they are often slow and irregular or abnormally fast. In cases of anencephaly with a cephalic presentation they are frequently heard unusually low in the abdomen during labor and are serv irrecular.

Abnormally active movements of an anencephalic monster may become convulsive if pressure is made on the head HARVEY B MATTHEWS M D

Siegert F The Problem of the Cervical Placenta (Zur Frage der Cer 1x placenta) Zischr f Gebu ish u Gynack 1918 xcm 744

There is still a difference of opinion as to the functional significance of the isthmus which is bounded above by the anatomical internal os and below by the histological internal os Pankow emphasized the importance of the isthmus as a third segment of the uterus Zangemeister believed the isthmus to be of no obstetrical significance but of decided importance in the etiology of placenta prævia

It has not been proved that the development of the isthmus finds its physiological boundary at the

histological internal os The author discusses at length the question as to whether in the formation of the cervical placenta the 1sthmus remains distinct or it is unnecessary to assume a division of the uterus into three parts from the standpoint of function A primary insertion and complete development of the ovum in the cervix of the uterus has been described only by Tarmer and Devtaigne Bar A cervical placenta may develop from or over an isthmic placenta. The author describes in detail a cervical placenta in a twenty seven year-old para iv The first severe hæmorrhage began with labor Cæsarean section and manual removal of the placenta were done. The placenta had a corpus portion measuring 15 by 15 cm a ring shaped lobe adherent in the lower uterine seg ment and a tongue like process in the cervical canal extending nearly to the external os The removal of the placenta was accomplished quite easily. It is assumed that in this case the implantation in the

cervix occurred from a primary corpus placenta by means of a refler placenta.

The depth of the placental attachment to the cervical wall depends upon the extent and degree of the previous development of the cervical canal hot every cervical placents is a placental accrete.

It is difficult to say whether the histological in ternal os can be differentiated histologically in the development of a cervical placenta as the destruction of the glands in the region of the placental tissue usually makes the differentiation of the cervical and isthmic glands impossible.

The decidual reaction has been described very differently and presents no constant picture. The most detailed description of this reaction has been given in reports of the relatively uncommon cases of wall splitting. cervical placents (kermanuer Krause Zengemester Tegel). It is generally be leved that when the placents as situated entirely below the internal on the described public that the backets are the placents of the placents does not extend below the histological in ternal of

The type of placental insertion all owners Placenta accreta in frequently does merely to deficiency or absence of a decidual reaction in the uterine out let The dissecting type of growth of the cervical placenta is specular in that by means of it the cervical wall is separated into two layers. The placental insue does not be suffered to the placental insue does not be suffered with but enters the cervical wall some in such a way that the placenta is covered on one side by a layer of muscle and on the other side by a layer of muscle and on the

Even though the development of the 1 thmus during pregnancy is to be regarded as physiological there still remains the question as to how the lawer margin of the sixthmus the histological internal or reacts to this developmental process. This is not reacts to this developmental process. This is not explained by a sphinter action of the wall muscle hisdering the possibility of growth of the uterus the does the gland picture in decidual process that the sixth of the control history and the control that the sixth of the control history and the control hi

united cervix
The primary sithmic placenta comes into contact
with the miscoss of the cervix earlier and more erwith the miscoss of the cervix earlier and more erwith the miscoss of the cervix for the cervix
Extraction of the cervix
Extraction
Extraction of the cervix
Extraction
Ext

slight
As important as the division of the uterus into
three parts may be in the etiology of placents
prayar it does not explain the histological and
functional cervical placents. The latter is seldon a
covering lobe as rule it is ano offshoot Therefor it
is not a placenta prayia but a placenta laterals
terrials:

Hrw (5)

Browne F J and Dodds G II Further Experimental Observations on the Etiology of Actidental Hæmorrhage and Placental Infarction J Obst & Gynat B (Emp. 1928 xxv 66

In experiments on animals the authors found that the chief predisposing cause of accidental hamor thage is chronic nephritis In the presence of chronic nephritis antepartum hamorrhage could be precipi tated on the twentieth day by producing an acute exacerbation of the nephritic condition by injecting sodium oxalate uranium nitrate or the bacillus p) ocyaneus Three animals with chronic nephritis had a spontaneous antepartum hæmorrhage in the second half of pregnancy In the cases of such animals albu min may be absent from the urine between pregnan cies and during the early months of pregnancy but appears during the latter half of pregnancy and before the onset of spontaneous hamorrhage This observation seems to have an important bearing on the question of so called recurring toxamias of preg nancy The cause of the hamorrhage is probably the failure of the kidney to excrete the toxins which accumulate in the circulation. The liver function remains normal in animals suffering from experimen tally produced nephritis As the blood cultures are found to be sterile during the bleeding it is evident that microorganisms have no part in the etiology of accidental bæmorrhage

ABRAHAM A BRAUER M D

LABOR AND ITS COMPLICATIONS

Esmann V Induced Premature Labor in Sixty five Cases of Contracted Palvis (Sur 65 cas d'accouchement prématuré provoqué dan les has sins rétrécis) Gynée et obst 1028 XVIII 401

Among more than 7 200 deliveries the author has induced premature labor in 65 cases of contracted pelvis. In the first group of 10 cases which were sen in the period from 1905 to 1912 he used a Tarmer balloon Five of the infants lived and 5 were born dead or died soon after birth. In a cases

there was a breech presentation

Esmann attributed the frequency of breech presentation to the use of the balloon. Therefore in the 55 other cases he employed laminaria tents. After dilating the cervix with a metal dilator by Hegar's method he introduced from 2 to 4 thick laminaria tents placed a square of iodoform gauze in front of the external os and tamponed the vagina with se de cotton When the tampon and the tents were withdrawn after from eighteen to twenty four hours dilatation of the os and rupture of the membranes were usually accomplished easily. In a few cases it was necessary to repeat the introduction of the tents

By this procedure a beginning of labor is brought abo + before the membranes rupture In 10 of the cases reviewed labor was terminated within twenty four hours and in 21 within twelve hours. In 1 case however delivery could not be terminated with forceps until ten days after the first introduction of

the laminaria tents The child lived

In the 55 deliveries in the second group of cases there were 5 dead infants All of them were delivered

in the first 27 cases

The 65 mothers left the hospital in good condition The author states that if he were repeating the delivery in 5 of these cases - 4 in the first group and in the second-he would perform a casarean section. In the induction of labor it is important for the fetus to be in an upright position preferably in head presentation. When it is in a transverse posi

tion casareau section should be done

In the author's practice there are not many cases of marked pelvic deformity due to rickets but there are a considerable number of cases of generally contracted pelvis well formed but small measuring from 1 to 2 cm less in diameter than the normal pelvis. In such cases and in cases with mechanical dispropor son between the size of the pelvi and that of the head because of abnormal size of the head the induction of labor is indicated. This is best done in the thirty sixth or thirty seventh week of pregnancy at which time the child is well developed and viable AUDREY G MORGAN M D

Rizzacasa N A Case of Spina Bifida Occulta and Rupture of the Symphysis of the Pubis (Su un caso di spina binda occulta e sulla ottura della sinfisi pubica) Cli ost 1 1928 xxx 564

The patient whose case is reported was a primip ata thirty years of age Examination showed a

generally contracted non rachitic pelvis of the first degree After many hours of labor with complete dilatation of the os the author applied forceps be cause of beginning fever and weakening of the fetal heart sounds Following several ineffective tractions he found that the fetal heart was no longer beating and decided to perform a craniotomy Before he undertook the craniotomy however his assistant made another attempt to effect delivery with the forceps. In a lateral movement, the anterior arch of the pelvis suddenly yielded and the child's head was ammediately delivered. As the patient was anas thetized she experienced no pain. The symphysis remained intact but there was a subcutaneous rupture of the pubis just to the right of it. The child's head was normal in size but as there was complete ossification moulding had been impossible

For a few days after delivery the patient was unable to move her right leg but three weeks later

she had no symptoms of any kind

After about three years she became prechant again and was delivered of a normal child spontaneously at

Roentgen examination of the patient showed in addition to the generally contracted pelvis an occult spina hifida. Evidently infantilism of the pelvis had contributed to the rupture of the os pubis AUDREY G MORGAN M D

Convelaire A Portes L and Digonnet L Late Postpartum Hæmorrhages Indications for Their Treatment by Immediate Hysterectomy (Les hémorragies tardives des suites de couches indications de leur traitement par l'hystérectomie demblée) Gynée et obst. 1028 xviii 170

It has generally been supposed that postpartum hemorrhages are always due to retention of a frag ment of placenta in the uterus. This however is not true. Among twenty successive cales of post partum hemorrhage observed by the authors retained placenta was found in only eleven in nine the uterus was completely empty

The seriousness of postpartum hamorrhage whether there is partial retention of placenta or not depends not so much on the amount of the hæm orrhage as on the associated infection of the uterus The uterine infection may remain latent until the beginning of the hemorrhage and may be dissemi nated by exploration or curettage. In the five cases in the authors series in which no intra uterine operation or examination were performed there were no deaths whereas in the ten cases in which curet tage was done there were six deaths placenta was found in seven of the ten cases treated by curettage. In the seven cases with retained placenta which were treated by curettage there were three recoveries (one with bilateral phiebitis of the leg) and four deaths from septicæmia (one in spite of vaginal hysterectomy) In the three cases treated by curettage in which no retention of placenta were found there were two deaths-one from another hamorrhage and one from septicamis

histological internal os

in the etiology of placenta prævia

It has not been proved that the development of the 1sthmus finds its physiological boundary at the The author discusses at length the question as to

no obstetrical significance but of decided importance

whether in the formation of the cervical placenta the 1sthmus remains distinct or it is unnecessary to assume a division of the uterus into three parts from the standpoint of function A primary insertion and complete development of the ovum in the cervix of the uterus has been described only by Tarmer and Devraigne Bar A cervical placenta may develop from or over an isthmic placenta. The author describes in detail a cervical placenta in a twenty seven year-old para iv The first severe hamorrhage began with labor Casarean section and manual removal of the placenta were done. The placenta had a corpus portion measuring 15 by 15 cm ring shaped lobe adherent in the lower uterine seg ment and a tongue like process in the cervical canal extending nearly to the external os The removal of the placenta was accomplished quite easily. It is assumed that in this case the implantation in the cervix occurred from a primary corpus placenta by means of a reflex placenta

The depth of the placental attachment to the cervical wall depends upon the extent and degree of the previous development of the cervical canal Not every cervical placenta is a placenta accreta

It is difficult to say whether the histological in ternal os can be differentiated histologically in the development of a cervical placenta as the destruction of the glands in the region of the placental tissue usually makes the differentiation of the cervical and isthmic glands impossible

The decidual reaction has been described very differently and presents no constant picture. The most detailed description of this reaction has been given in reports of the relatively uncommon cases of cervical placenta (Lermauner wall splitting Krause Zengemeister Tiegel) It is generally be heved that when the placenta is situated entirely below the internal os the decidual reaction of the mucosa of the corpus is surprisingly slight. Histo logical examination of the mucosa permits a differ entiation of the isthmus and cervix only when the placenta does not extend below the histological in ternal os

The type of placental insertion also varies Pla centa accreta is frequently due merely to deficiency or absence of a decidual reaction in the uterine out let The dissecting type of growth of the cervical placenta is peculiar in that by means of it the cervical wall is separated into two lavers. The placental tissue does not penetrate through the mucosa into the muscle wall but enters the cervical wall from above in such a way that the placenta is covered on one side by a layer of muscle and on the other side by a layer of muscle and mucosa

Even though the development of the 1sthmus dur ing pregnancy is to be regarded as physiological

there still remains the question as to how the lower margin of the isthmus the histological internal os reacts to this developmental process. This is not explained by a sphincter action of the wall muscle hindering the possibility of growth of the uterus Nor does the gland picture the decidual reaction or the character or insertion of the placenta prove that in the invasion of the cervical canal by placental tissue from the 1sthmus the boundary of the histological internal os is protected. The entrance of the placenta into the cervix may be due to active growth of the placenta or to a passive sinking of the placental lohe covering the internal os into the dilating or already dilated cervix

The primary isthmic placents comes into contact with the mucosa of the cervix earlier and more ex tensively the more defective the closure of the cervix Extrachorial development of the placenta in the cervix is favored by a preformed space. The sinking of a placental lobule into the dilated cervix is easier when the development of the cervical lobule is followed in the last months of the preg nancy by progressive dilatation of the cervical canal. In such cases the danger of hamorrhage is relatively slight

As important as the division of the uterus into three parts may be in the etiology of placents prævia it does not explain the histological and functional cervical placenta. The latter is seldom a covering lobe as a rule it is an offshoot Therefore it is not a placenta prævia but a placenta lateralis cervicalis

Browne F J and Dodds G H Further Experi mental Observations on the Etiology of Acci dental Hæmorrhage and Placental Infarction J Obil & Gynac Bril Emp 1928 xxxv 661

In experiments on animals the authors found that the chief predisposing cause of accidental hamor rhage is chronic nephritis In the presence of chronic nephritis antepartum hæmorrhage could be precipi tated on the twentieth day by producing an acute exacerbation of the nephritic condition by injecting sodium oxalate uranium nitrate or the bacillus p)ocyaneus Three animal with chronic nephritis had a spontaneous antepartum hamorrhage in the second half of pregnancy In the cases of such animals albu min may be absent from the urine between pregnan cies and during the early months of pregnancy but appears during the latter half of pregnancy and before the onset of spontaneous harmorrhage. The observation seems to have an important bearing on the question of so called recurring toxemias of preg nancy The cause of the hamorrhage is probably the failure of the kidney to excrete the toxins which accumulate in the circulation The liver function remains normal in animals suffering from experimen tally produced nephritis As the blood cultures are found to be sterile during the bleeding it is evident that microorganisms have no part in the etiology of accidental bamorrhage

ABRAHAM A BRAUER M D

lasting one hour) although the pelvis was con tracted For the first few days the infant nursed regularly Then its temperature rose and there ap peared within a few hours a bulging of the fontanelle trismus stiffness of the neck the Kernig sign and contracture of the lower extremities in extension Spinal puncture performed several times withdrew a jellow fluid which was under slightly increased pressure The fluid contained numerous erythrocytes As the mother presented a slightly positive Wassermann reaction anti syphilis treatment of the mant was instituted Purpuric spots appeared on the extremities and death occurred on the tenth day Autopsy showed a purely meningeal hæmorrhage and hamorrhagic foci in the liver kidneys and lungs

Case 2. The patient was a primipara thenty five years old with a contracted pelvos. A crassivean extens as performed under spinal anaesthesia. The mater was slow to breathe Lumbar puncture executed a bloody fluid. On the third day the posal fluid was antibochromic and still under in crassed tension. Generalized convulsions developed and death occurred on the twenty sirth day.

Case 3 The patient was a para is with a contracted pelvis Labor was induced two weeks before term On delivery the infant breathed but did not ory. In the left temporopanetal region there was a slight swelling. This swelling increased in volume and the infant was seried with contractures of the legs in extreme fleuon. Lumbar puncture evacuated a bloody fluid. Death occurred two days later. At autopsy a purely meningeal harmorrhage was found

Case 4 The patient was a woman twenty two con tracted Premature rupture of the membranes occurred. The total duration of labor was twelve hours and thirty minutes and the duration of the second stage one hour and thirty minutes Resuctation of the infant was difficult Death occurred on the second day. Autopsy showed only marked hyperaxima of the brain and other viscera

marked hyperamia of the brain and other viscera From these case histories the following conclusions are drawn

Although intracranial mjury is known to be produced by forceps operations these operations are not always responsible. Predisposing causes of hemorphage such as prematurity alcoholam in the parents and especially syphilis must be considered. In certain cases the meningeal hemorrhage is merely the dominating manifestation of a hemorrhagic dyscrasia. August 200 Memorrhagic dyscrasia.

in spite of a secondary hysterectomy-and one

542

recovery In five cases in which immediate hysterec tomy was performed on account of the seriousness of the condition there was one death which occurred in one of the two cases of this group without placental retention

The authors conclude that when a detached niece of placenta is found in the vagina cervix or uterus it should be removed digitally if possible but if it is adherent hysterectomy should be performed at once without preliminary curettage. Hysterectomy should be performed also in cases in which the uterus is empty if the fever which follows the examination does not recede within forty-eight hours or if another hæmorrhage occurs Abdominal hysterectomy is best because vaginal hysterectomy is difficult tech nically after delivery AUDREY G MORGAN M D

PHERPERIUM AND ITS COMPLICATIONS

Autefage Grave Puerperal Infections Cured by Hysterectomy (Infections puerpérales graves guéries par hystérectomies) Bull Soc d'obst et de

gynéc de Par 1928 XVII 723 Autefage reports a case of postabortum infection and a case of postpartum infection in which hyster ectomy followed by Mikulicz drainage resulted in prompt recovery

In the author's opinion hysterectomy is indicated in puerperal infection when after an abortion the temperature remains high and chills persist in spite of complete evacuation of the uterus and when a subacute infection occurs after labor with marked systemic symptoms and appreciable lesions of the

uterus and adnexa Surgical treatment has no place in the hyperacute

postpartum infections without localized symptoms The operation of choice is abdominal hysterectomy rather than vaginal hysterectomy principally be cause the former is better performed by most sur geons The use of the Mikulicz drain is of great importance ALBERT F DE GROAT M D

NEWBORN

Pigeaud H The True Causes of Fatal Meningeal Hæmorrhage in the Newborn (Les causes réelles des hémorragies meningées mortelles chez le nouveau nés) Gynée el obst 1928 xviii 334

A study of the present day literature dealing with meningeal hæmorrhages in newborn infants indicates that the majority of those writing on the subject attribute the condition almost exclusively to ob The conclusions drawn in this stetrical trauma

article are entirely to the contrary One of the first obstetricians to recognize that other causes might contribute to the production of intracranial hamorrhages was Couvelaire Couve laire noted the facility with which hamorrhages are produced in premature and congenitally syphilitic infants About the same time Lequeux showed that the severe hamorrhages of the newborn may be the result of hereditary infectious or toxic conditions the most important being alcoholism lead poisoning and especially syphilis in the parents Keene Demelin Warwick and Ballantyne have reported numerous cases of meningeal hamorrhage following normal labors or even casarean sections in which there was minimal trauma to the infant

In fifty autopsies Pigeaud found thirteen cases of meningeal hamorrhage. Six of the labors in these thirteen cases were spontaneous and entirely normal five were normal up to the moment that the con dition of the fetus necessitated delivery (low or mid forceps without trauma) and two were rendered

difficult by mechanical causes

Autopsies showed lesions of congenital syphilis in four cases In four others the autopsy findings to gether with the clinical evidence made the diagnosis of syphilis practically certain. In one case death seemed due to an intoxication (severe nephritis in the mother) and in another to an acute infection (acute inflammatory lesions of the lungs meninges and kidneys) In three cases death could be attri buted only to the traumatism of labor. In two delivery was effected by forceps. In one, the delivery was difficult. The remaining case was a difficult breech extraction

In the course of autopsies performed on fetuses of four or five months born with the membranes intact (that is to say without trauma) meningeal hamor

rhages were found six times From his studies the author draws the following

1 Purely traumatic intracranial hamorrhages occur in the newborn but are rare. In cases in which the labor and the fetus were normal they have not been demonstrated

2 The majority of fatal meningeal hamorrhages have an etiology that is essentially medical-as a rule a hereditary defect such as a toxemia or a chrome infection usually syphilis Rarely the cause

is an acute infection

3 Obstetrical trauma generally plays only au accessory rôle. It brings into evidence congenital lessons which alone are capable of producing men ALBERT F DE GROAT M D ingeal hæmorrhage

Andérodias and Dervillée Several Cases of Menin geal Hæmorrhage of the Newborn Following Spontaneous Delivery (Sur plusieurs cas d hémor ragie méningée du nouveau né à la suite d accouche

ments spontanés) Bull Soc d'obst et de gynte de Par 10 8 XVII 603

When a labor is complicated by dystocia necessitat ing the application of forceps and when the infant presents signs of meningeal hamorrhage there is a natural tendency to consider the obstetrical opera tion as the cause of the hamorrhage. This is of course an exaggeration. The authors report four cases in which meningeal hamorrhage occurred in the course of labors terminating spontaneously

Case I The patient was a twenty year-old pri mipara at term Labor was normal (second stage

In a series of sixteen patients with definitely ab normal urinary findings and definite impairment of renal function the blood urea averaged 15 9 mgm two hours after the ingestion of the urea and there were individual increases to more than 18 mgm At the end of fourteen hours the average residual was to a mgm. In about half of the cases there was a polyuna of over 750 c cm. The ingestion of the area did not influence the clinical condition or cause discomfort. In two cases of uraemia the blood urea continued to rise during the fourteen hour period an observation demonstrating that the kidneys were wable to eliminate not only the urea given but also the urea produced by catabolism of the tissues In these cases a relative oliguria developed

The determinations were made also in the cases of thirty-one patients with pathological urinary findings but with renal function that according to the usual tests was normal. In cases of acute and chronic nephritis early and mild infections and obstructions there was moderate retention after the

fourteen hour period

In a case of compensated heart lesson and in five cases of hypertension with negative urinary findings the results were normal. In hepatic disease with jaundice and ascites and in four cases of pernicious anamia there was moderate retention

CLAUDE D. PICKPELL M.D.

Mayrs E B Renal Function in Unitateral Dis orders of the kidney Brit M J 1928 11 1028

From a study of about fifty cases Mayrs con cludes that chemical analysis of the urine is not of much aid in the differential diagnosis of unilateral kidney disorders because various pathological conditions may have similar effects on renal function However it seldom fails to show which kidney is

affected

The chief value of chemical analysis of the urine hes not in revealing the presence of calculus or tubercle but in demonstrating the degree of injury to the kidney cells The most important problem is to distinguish the reflex diuresis from loss of con centrating power due to inefficiency of the kidney The kidney which is taken as a normal control may not be normal In most cases the blood urea is a safe guide THOMAS F FINEGAN M D

Fey B The Results of Twelve Operations for the Painful Syndrome of Hydronephrosis Preponderant Rôle of Abnormal Arteries (Résultats de douze interventions pour syndrome doulouteux d hydronéphrose Rôle prépondérant des artères anormales) Arch urol de la clin de

1 ck r 1928 vz 193

The twelve operations reviewed were performed for pain indicating intermittent hydronephrosis The author believes that surgery is justified by this in dication alone because a conservative operation is Possible only if it is undertaken early

If hen the syndrome is not definite complementary indications must be sought Pyelography may show

The degree of dilatation This is of importance only if it is well advanced as pyeloscopy has demon strated that minor dilatations may be purely phy stological

2 A deformity of the renal pelvis due to an ab normal artery This may consist of a simple nick in the shadow a clear space at the juncture of the ureter and pelvis or a spiral shadow due to rolling of the ureter over the abnormal artery These changes are seen however only when the dilatation

is well established

Pyelography is therefore of no value in cases that can be benefited by a conservative operation but pyeloscopy gives information of importance in early cases In only one of the author scases did pycloscopy prove unreliable. In two cases it revealed a hyper tonic pelvis and irregular contractions with a short exacuation time. In three cases, the evacuation time was retarded. In six cases, there was complete or nearly complete retention. The importance of the interpretation of these findings is emphasized Papin and the author have expressed the opinion that com plete retention signifies a complete and permanent loss of motility and for cases with complete retention they have advised nephrectomy. However the author's present attitude is less dogmatic because pyeloscopy has shown that the loss of motility of the renal pelvis may be only temporary At the time of examination there may be only an inhibition of the pelvic contractions After a nephrectomy for com plete retention the kidney has been observed to contract spontaneously and rhy thmically Chevassu has made the same observation in two cases On one occasion the author saw contractions appear after section of an abnormal artery and was thereby led to preserve the kidney

In the treatment of hydronephrosis the first step is exposure and exploration of the kidney Judging from the literature and the author s own experience (eight of the twelve cases reviewed) an abnormally placed artery is usually found. This has been described as a vascular band an inferior polar artery or an abnormal artery There are also ab normal arteries of the hilum. In one case the ureter was kinked over an ovarian artery

As the usual mode of approach disturbs the ana tomical relations so that any kinks of the ureter may entirely disappear the author employs an anterior extraneratoneal route (Bazy Chevassu Legueu) which allows inspection of the kidney without dis turbing it or its pedicle. When the nature of the lesson has been determined the decision between nephrectomy and a conservative operation must be made

The indications for nephrectomy are loss of the secretory power of the kidney revealed by a thinning of the renal parenchyma and loss of the excretory function The latter is difficult to judge. As an indication of loss of motility dilatation of the ureter is of more value than dilatation of the pelvis. The best procedure seems to be direct stimulation to pro voke contraction of the pelvis after the constricting

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Hicks J B Adenoma of the Adrenal Cortex New Lugland J M d 1928 excix 1140

Adenoma of the adrenal cortex is a benign epithe hal growth which is quite rare. According to Gib son it is found about once in from 10 000 to 12 000 patients admitted to a general hospital As a rule it is discovered only at autopsy although in a con siderable number of ca es it produces symptoms. It may be mistaken for a hypernephroma

One of the most interesting phenomena associated with adenoma of the adrenal cortex is virilism. The clinical picture of virilism has been recognized since ancient times Hippocrates described two women with virilism bodies resembling the male and

with hair

All adenomata of the adrenal cortex discovered by Clinical examination have occurred in children and women Symptomless adenomata have been found

in males at autopsy

The tumors range in size from nodules to large masses In their microscopic structure they vary from an almost exact reproduction of cortical tissue to gland like spaces or alveoli lined with cylindrical or cuboidal cells As adenomata they do not metas tasize but they probably often undergo malignant

Change

In explanation of virilism several theories have been advanced. It is generally accepted that there is an internal secretion from the growth which in women tends to diminish the female and increase the male primary and secondary sexual characteris tics According to Krabbe this effect is due to the origin of the tumor from sex glands of masculine type

The most common signs in females are those of diminished primary and secondary sexual charac teristics with a change toward the male ie the growth of a beard the growth of hair on the chest and extremities and male distribution of the pubic hair The change may be of such a degree as to sug gest hermaphrodism In boys there is premature development of the external genital organs and in adult males impotency. A rare sign is pigmentation of the skin

The condition is to be suspected when in the case of a patient showing signs of virilism a suprarenal mass is demonstrated by physical examination cystoscopy pyelography or surgical exploration. In young persons the s) imptoms are usually marked but in a large percentage of cases the diagnosis can he made only after microscopical examination of the tumor tissue

The best treatment so far known is surgical re moval of the tumor In young persons the operative

mortality is high but the benefits of operation are so great that surgery should be tried Early surgical intervention is advisable also to prevent malignant changes in the benign tumor

The author reports the case of a woman forts eight years of age in whom a mass in the left upper quadrant of the abdomen was discovered by two physicians One physician diagnosed the mass as an enlarged spleen and the other as a tumor of the kid ney Palpation indicated that the mass was an en larged spleen but the pyelograms and findings at operation suggested that it was a large hyperne phroma The pathological examination alone settled the diagnosis and prognosis. There were no signs of virilism but the skin showed a quite marked gen eralized vellowish brown pigmentation. The pigmentation disappeared completely soon after re moval of the tumor I FOWDY KIREPATRICE M D

King E S The Urea Tolerance Test An Index of Renal Function Arch Int Med 1928 x1: 877

In the author's investigation of the value of the concentration of urea in the blood as an index of renal function the subject was kept in bed for a period of fourteen hours and during that time was allowed too c cm of fluid. For the proper inter pretation of the changes in the blood urea it was necessary to maintain the volume of urine within certain limits. No supper was given. The first specimen of urine was rej cted but every specimen An oxalated specimen of thereafter was saved blood was taken One gram of urea to 10 lbs of body weight was given in sweetened lemonade. Two hours later a second specimen of blood was taken Fourteen hours after the administration of the urea the last specimen of blood was taken and the quan tity of utine was measured

Sixty five determinations made in the cases of twenty seven normal subjects showed a sharp in crease in the blood urea between the first and second hours after the ingestion of the urea followed by a gradual return to the control level at the end of the fourteen hours The maximum con entration was reached after about one hour and was as high as 15 mgm In the second hour the variations were less marked The average level was 10 1 mgm. The equilibrium level was reached in the second hour The rate of urea excretion was greatest when the blood concentration was highest

It was decided that the second hour reading was of relatively minor importance but that an increase in the urea nitrogen in the blood after the fourteen hour interval was of significance. Variations up to 2 mgm above the central level were considered within normal limits provided the urine output was not over 750 c cm

In a senes of sixteen patients with definitely ab normal unnary findings and definite impairment of renal function the blood urea averaged 15 9 mgm two hours after the ingestion of the urea and there were individual increases to more than 18 mgm At the end of fourteen hours the average residual was to a mgm. In about half of the cases there was a polyuria of over 750 c cm. The ingestion of the are did not influence the clinical condition or cause discomfort. In two cases of uraemia the blood urea continued to rise during the fourteen hour period an observation demonstrating that the kidneys were unable to eliminate not only the urea given but also the urea produced by catabolism of the tissues In these cases a relative oliguria developed

The determinations were made also in the cases of thirty-one patients with pathological urinary findings but with renal function that according to the usual tests was normal. In cases of acute and thronic nephritis early and mild infections and

obstructions there was moderate retention after the fourteen hour period

In a case of compensated heart lesson and in five cases of hypertension with negative urinary findings the results were normal. In hepatic disease with jaundice and ascites and in four cases of pernicious anamia there was moderate retention

CLAUDE D. PICKRELL M.D.

Mayre E B Renal Function in Unilateral Dis orders of the kidney Brit If J 1928 it 1028

From a study of about fifty cases Mayrs con cludes that chemical analysis of the urine is not of much aid in the differential diagnosis of unilateral kidney disorders because various pathological condi tions may have similar effects on renal function However it seldom fails to show which kidney is affected

The chief value of chemical analysis of the urine lies not in revealing the presence of calculus or tubercle but in demonstrating the degree of injury to the kidney cells. The most important problem is to distinguish the reflex diuresis from loss of con tentrating power due to mefficiency of the kidney epithelium. The kidney which is taken as a normal control may not be normal In most cases the blood

urea is a safe guide THOMAS F FINEGAN M D

Fey B The Results of Twelve Operations for the Painful Syndrome of Hydronephrosis The Preponderant Rôle of Abnormal Arteries (Résultats de douze interventions pour syndrome douloureux d'hydronéphrose Rôle prépondérant des artères anormales) treh urol de la clin de Yecker 1928 vt 193

The twelve operations reviewed were performed for pain indicating intermittent hydronephrosis The author believes that surgery is justified by this in dication alone because a conservative operation is Possible only if it is undertaken early

When the syndrome is not definite complementary

indications must be sought Pyelography may show

The degree of dilatation This is of importance only if it is well advanced as pyeloscopy has demon strated that minor dilatations may be purely physiological

2 A deformity of the renal pelvis due to an ab normal artery This may consist of a simple nick in the shadow a clear space at the juncture of the ureter and pelvis or a spiral shadow due to rolling of the ureter over the abnormal artery These changes are seen however only when the dilatation

15 well established

Pyelography is therefore of no value in cases that can be benefited by a conservative operation but pyeloscopy gives information of importance in early cases. In only one of the author's cases did py eloscopy prove unreliable. In two cases at revealed a hyper tonic pelvis and irregular contractions with a short evacuation time. In three cases, the evacuation time was retarded. In six cases, there was complete or nearly complete retention. The importance of the interpretation of these findings is emphasized Papin and the author have expressed the opinion that com plete retention signifies a complete and permanent loss of motility and for cases with complete retention they have advised nephrectomy However the author's present attitude is less dogmatic because pyeloscopy has shown that the loss of motility of the renal pelvis may be only temporary. At the time of examination there may be only an inhibition of the pelvic contractions After a nephrectomy for com plete retention the kidney has been observed to contract spontaneously and rhythmically Chevassu has made the same observation in two cases. On one occasion the author saw contractions appear after section of an abnormal artery and was thereby led to preserve the kidney

In the treatment of hydronephrosis the first step is exposure and exploration of the kidney Judging from the literature and the author's own experience (eight of the twelve cases reviewed) an abnormally placed artery is usually found. This has been described as a vascular band an inferior polar artery or an abnormal artery There are also ab normal arteries of the hilum. In one case the ureter was kinked over an ovarian artery

As the usual mode of approach disturbs the ana tomical relations so that any kinks of the ureter may entirely disappear the author employs an anterior extraperitoneal route (Baz) Chevassu Legueu) which allows inspection of the kidney without dis turbing it or its pedicle. When the nature of the lesion has been determined the decision between nephrectomy and a conservative operation must be made

The indications for nephrectomy are loss of the secretory power of the kidney revealed by a thinning of the renal parenchyma and loss of the excretory function The latter is difficult to judge. As an indication of loss of motility dilatation of the ureter is of more value than dilatation of the pelvis. The best procedure seems to be direct stimulation to provoke contraction of the pelvis after the constricting

band has been severed. If contraction occurs con Nephropexy is the operation of choice when there is ptosis of the kidney This was employed only once in the cases reviewed The author is opposed to its

servative treatment seems justifiable

routine use Section of the artery which is embarrassing the

pelvic function suffices to cure the retention (cure in all of seven cases) Complementary operations (nephropexy plastic operations) are superfluous Theoretically there is danger of causing an infarct by sectioning an artery but practically no accidents are observed Because of the technical difficulties and the uncertainty of the results the author has never employed any of the plastic operations on the pelvis or ureter

A complete cure was obtained in nine of the twelve cases reviewed In eight of the cured cases an artery was the cause of the symptoms In one of two cases of rotation of the kidney a partial cure was obtained and in the other the treatment failed. In one case no lesion was found. Infection was present in two cases. In one of these there was a veritable pyonephrosis The fact that both patients with infection were cured confirms the author's oninion that persistence of infection is directly related to loss of motility of the excretory passages Pyeloscopy shows that motility is recovered in all cases after operation. Curiously the notch produced by the artery often persists

With regard to the pathogenesis of the hydrorephrosis the author concludes that the action of an abnormal artery is not mechanical but reflex Excent for the presence of such an artery there is

no congenital cause of hydronephrosis. The crises of pain are due to spasms of the muscu lature of the pelvis and ureter occurring between

intervals of inactivity The author's twelve cases are reported in detail

with roentgenograms and anatomical diagrams ALBERT F DE GROAT M D

Lequeu Fey and Cordan Disturbances in the Evacuation of the Lidney Pelvis and the Recurrence of Calculi (Les troubles d évacuation du bassinet et la récidive des calculs) Arch urol de la clin de Necker 1928 vi 175

There being no way of predicting whether or not calcult will recur after pyelotomy or nephrotomy the indications for nephrectomy have been gradually ex tended in recent years To discover the factors which influence the prognosis in nephrolithiasis the authors have re-examined seventeen patients whom they

operated upon for this condition In ten of the seventeen cases a pyelotomy was done in five a nephrotomy and in two a ureter otomy The calcult recurred in five cases (27 per cent) Three of the recurrences followed pyelotomy and two followed nephrotomy The diagnosis of recurrence was made with the 1 ray Four of the

five recurrent calcult were silent Of the conditions that predispose to recurrence infection comes first Infection was present in fifteen of the seventeen cases Both of the two patients without sepsis remained well. Of the seven with infection who had clear urine soon after the operation all remained without recurrence. Of the eight who remained infected after operation five suffered a recurrence

While the rôle of infection is certain the conditions that cause persistence of infection require investiga

After every operation efforts should be made to sterilize the urinary tract. In a number of cases the urine clears rapidly even without treatment but in others which are clinically identical the injection persists regardless of any and all therapy. The authors have seen calcult develop while the patient was receiving weekly arrigations for a colon bacillus pyelitis In studies of the relation of imperfect evacuation of the renal pelvis to the persistence of infection it was found that the infection and re-

tention paralleled each other Of the authors nine patients who were free from recurrence and had clear urine only one showed any degree of retention in the renal pelvis. The three whose urine remained infected showed retarded evacuation of the renal pelvis. Therefore the ultimate cause of recurrent calculi appears to be

retention which acts by maintaining infection In pyeloscopic studies calculi have been found to cause a degree of retention that seems to be entirely reflex Continued retention after operation is as cribed to a functional disturbance of the musculature of the pelvis. If a calculus is removed promptly, the normal motricity of the pelvis is promptly recovered any infection that may be present is overcome and the patient remains well but if sclerosis of the kidney pelvis has taken place the tonicity of the pelvis is lost retention and infection persist and recurrence of the calculus is mevitable. These facts may be utilized in establishing the prognosis and the ab sence or presence of a good pelvic motility will en able the surgeon to choose wisely between nephrec tomy and a conservative operation

ALBERT F DE GROUT M D

Kretschmer H L and Randolph H S Spindle Celled Sarcoma of the Kidney in Adults tax

Su r 1018 laxxviii 1013 The authors state that in children spindle-celled tumors are the most common types of renal neoplasms but in adults they are rare and spindle celled sarcoma is very rare. They report the case of a man fifty five years of age who complained of hæmorrhoids pain and swelling of the left testis and the left lower quadrant of the abdomen of six weeks duration epigastric distress which occurred in mediately after meals and was frequently relieved by womiting a loss of weight for a period of two months slight frequency of unnation noctura fever and sweating of five weeks duration and a painful varicocele which had been present for several months The abdominal pain was of a mild dragging

character and was noted especially after walking

The swelling and pain in the testicle had become provessively more marked and constant and

radiated to the perineum and anus Examination revealed a hard mass in the left flank which extended up to the ribs across the mid line and down to a point just below the left anterior superior spine of the ilium and moved slightly with respiration. A mass was palpable also just above the umbilicus Slight tenderness was present in the right fank but none was noted on fist percussion poste norly The urine contained blood and pus Exam mation of the stools revealed a strong benzidine reaction Fluoroscopy showed the stomach to be displaced to the right. In the urine from the left kidney the urea was markedly diminished and the phthalein test was not readable. The pyelogram of the right kidney was normal but that of the left hidney showed a complete block of the renal pelvis A diagnosis of tumor of the left kidney probably

byernephroma was made

Operation revealed a large tumor mass firmly
adherent to the surrounding structures Removal of
the left kidney disclosed large tumor masses both
above and below the area from which the kidney

had been removed (lymph gland involvement). The patient recovered from the operation and remained in good condition for several months but ded from an extensive local recurrence. Permission for autopsy was not obtained. The pathological

dignosis was spindle-celled sarcoma Spindle-celled sarcoma of the kidney has been con fused with hypernephroma but is most difficult to differentiate from retropentoneal sarcoma. The take reported in this article is an excellent example of the title redificulty as the tumor had almost completely replaced the kidney. The point of origin of

the sarcona is difficult to establish

Kimmurus is frequently absent when the tumor
feetlops from the capsule but is generally present
when the tumor is of stromal and epithelial origin
when the tumor is of stromal and epithelial origin
to the control of the capsule but is generally present
to the control of the capsule but is of the control
to the control of the capsule but is of the capsule
to the capsule of the capsule of the capsule
to the capsule

Louis Neuwelt M D

lienline R B A New Method of Paravertebral Anaesthesia for Kidney Operations Report of Thirty Three Cases J Urol 1920 Xu. 27 leck H S Nephrectomy under Spinal Anæs thesia with Particular Reference to Nephrec tomy in Renal Tuberculosis J Urol 1929 zu

Ockerblad N F and Dillon T G Ephedrine— Controlled Spinal Anæsthesia J Urol 1929

Heatine calls attention to the fact that in renal operations the margin of safety is less than in most surgical procedures because one of the organs of

elimination is either removed or considerably em barrassed It is still further reduced by the use of general anasthesia. With paravertebral anasthesia it as possible to operate in cases in which the function of the ladneys is so defective as to render the risk of general anasthesia very great. Regional anasthesia causes fewer deaths than inhalation anasthesia.

In the author's method of inducing paravertebrial anexathesia the posterior roots of the spinal nerves are ispected with a solution of procain at or near their point of earl from the vertebral column. Only the nerves which supply the operative field are in jected. It is rarely necessary to use more than 1.5 gm of procain A is per cent solution of procain causes no vascodilatation or vasconsisticution and as supply the process of the proc

The use of adrenalin for regional anasthesia has been discontinued by Henline because it is not free from danger it increases the toxicity and anasthesia of sufficiently long duration can be in

duced without it

The needle used for the induction of regional anasthesia should be flexible but should not bend and should be long enough so that it will not be entirely buried in the tissues when the deepest in rection is made

Before the regional injections are begun Henline gives three hypodermic injections of ½ gr of mor phine sulphate in 2 c cm of a 50 per cent solution of magnesium sulphate with procain after the method of Gaathmey These injections are given at half hour intervals

For the paravertebral anasthesia a 1 per cent solution of procain without adrenalin is used. This solution is injected both above and below the trans verse processes of the eighth dorsal to the second lumbar vertebra inclusive. Five cubic centimeters are injected above and below each nerve except in the case of the two lumbar nerve for which the case of the two lumbar nerve for which the individual and including the process of great importance in renal surgery. Two nerves are in jected through one skin puncture.

Henline uses also the posterior method of splanch me analgesia devised by Kappis. He employs this method for manipulations of the kidney. In addition, the line of the incision is infiltrated subcutan cously with the 1 per cent procaus solution.

If weakening of the puble is noted during the administration of the procam which is not unusual the induction of the ameritesia is stopped and a hypodermic injection of 10 on of a 1 1000 solution of adrenalin or from 5 to 10 gr of a solution of affician sodium beneate are given immediately cafficial sodium beneate are given immediately restore the quality of the puble to normal within a short time

Fluids are given before during and immediately after the operation. The administration of fluids is

very important in renal surgery as it prevents tem porary dehydration with disturbance of kidney function

By the combined anasthesia described Henline obtained successful results in 50 6 per cent of eighty one cases 1 notry four cases additional anasthesia was required For operations lasting an average of forty two and two tenths minutes an average of 120 6 c cm of 1 per cent procain was used

JECK believes that spinal anaesthesia is better for nephrectomy than any other form of regional anæsthesia. It necessitates less experience on the part of the anæsthetist it requires much less time and much less manipulation and therefore spares the nervous system of the highly neurotic patient and it is satisfactory in a higher percentage of cases than other forms of regional anaethesia. In renal tuberculosis it is better than general anæsthesia for nephrectomy because it spares the lungs it has no apparent effect on the kidneys at is associated with less danger of dissemination of the toxic material as it usually requires much less handling of the kidney and it is seldom if ever followed by the very distressing type of ilens which so frequently follows kidney operations performed under general anæsthesia

anasthesia In twenty-one cases Jeck used either novocain Pitkins solution (200 mgm does of novocain) or necean: The site of injection was the space hetween the twellth dorsal and first lumbar vertebra. In discussion of the site of the

Trendelenburg position OCKERBLAD and DILLOY report on the use of enhedring in 200 cases of spinal angesthesia. They state that in patients subjected to spinal anasthesia a circulatory collapse occurs which varies in degree according to the patient's age the stability of the circulation the blood pressure the amount of procam introduced into the subdural space the length and seventy of the operation and the patient's pervous and general physical condition. There can be no doubt that this is due to paralysis of the splanchnic nerves which is produced by the procain and is followed by dilatation of the splanchnic ves sels causing them to act as a reservoir for nearly all of the blood in the body. It was to combat this condition that the authors began the routine use of ephedrine The pharmacological action of adrenalin and ephedrine is somewhat the same but ephedrine produces a sustained increase in the blood pressure both systolic and diastolic

In cases of hypotension the authors give ephedrine long enough before the administration of the process

to raise the blood pressure from 20 to 30 mm above normal for the patient. As soon 22 a rendency to ward a fall in the blood pressure as a rendency to spinal anesthesis 0.05 m of sphedical spinal spinal

Serra G Ureterovenous Anastomosis and Its Effects Particularly with Reference to the Production of Uremia (Lanastomos ureterovenosa e le sue conseguenze speculamente in rapporto con la genesi dell'uremia) Irch stal d'chi 1928 XIII 137

In experiments on dogs in which Serra estab ished a unilateral anastomous between the wreter and the iliac vein he found that in a certain percentage of the animals the opening remained permeable for a considerable length of time but in others was promptly occluded by a thrombus. In the latter his findings agree with those of Bruecke. In the animals with occlusion the late effects were those of hydro nephrosis In those in which the opening remained permeable. Serra did not see the rapidly fatal uræmic symptoms described by Bruecke Instead he found inflammatory and degenerative changes in the liver and kidneys and progressive general de pression with a moderate increase in the amount of urea in the blood. However, the behavior of the xanthoprotein reaction was by no means constant These findings show that contrary to the opinion of Bruecke and others a direct flow of urine into the blood can be borne for some days (as long as ten days in the author's experiments)

The symptoms and nathological lessons are the planed by changes in the blood and the establish ment of a vicious circle as a result of the di turbance of the excretory function. The findings to objustify the assumption that there is a nephrogenic totam. When the renal and hepatic lessons have been once produced by the disturbance of exchange between the blood and urtue the products of disintegration of the parenchymatous cells contribute still further to the dranges by their towards.

Histological evanuation of the anastomoses showed changes in the structure of the sail of the sent the venous endothelium was destroyed and in some instances there was problectation of the ureteral endothelium on the inner surface of the vimility destruction of muscle cells and signs of influm matory infiltration in the media and adventual through it Sometimes it developed in successive all pages?

Trans.Q Mones.** VID

Trattner H R Ureteral Activity in Some Pathological Conditions Studied by the Graphic Manometric Method A ch Surg 1918 214 968

The author describes a sensitive instrument for the graphic manometric study of ureteral peristal is by means of which ureteral activity may be recorded without obstructing the escape of urine method is adaptable to the intact unexposed human ureter as well as to the exposed or excised animal ureter and causes minimal inconvenience to the na

tient and operator

The outflow of urine is controlled by a needle valve adjustment in order to establish the degree of peripheral resistance at which contractions are best maintained and to simulate intravesical pressures The upper lower and middle portion of the urcter may be examined separately by placing the end of the catheter at the desired level In clinical cases the activity of the ureter of one side is usually com pared with that of the other by using one manome ter alternately. However simultaneous records of both ureters have been made with two manometers and in bilateral ureteral duplication with four

The ur ter seems to possess two chief types of waves namely the small rapid pendulum move ments that are not concerned with the propulsion of urine and the slower more powerful peristaltic con tractions that are usually accompanied by an out flow of urine These waves vary in configuration There are tonus variations tonic and spastic con tractions and changes of rhythm The waves may be (1) complete 1 e pass along the entire length of the ureter (2) incomplete 1 e arise in the renal pel vis but disappear before reaching the bladder or (3)

local 1e confined to a small segment of the ureter The problem of effective ureteral drainage is not necessarily one of mechanical ureteral obstruction Ureteral obstruction may be of the dynamic variety in which there are hypertonus spasm etc or of the adynamic type in which there is hypotonus atony atrophy or paralysis Under such conditions normal renal physiological activity is impaired by the loss of a functionally competent ureter Incompetency of the ureteral musculature will account for the uni lateral dilatation sometimes seen when the obstruction is distal to the ureter and for the resistance to

t eatment in many cases of ureteropy elitis

A test of ureteral competency is made when spon taneous peristaltic activity seems to be absent since under such conditions the ureter may be either merely quiescent or incapable of contracting. The test is made by injecting fluid into the ureter. If the ureter is capable of contracting energetic attempts at expulsion are elicited The motor response varies according to the degree of ureteral involvement and

is designated as strong moderate feeble or absent The ro e of congestion of the female ureter in sim ple uretentia is discussed. Whether the increased blood flow to the lower female ureter causes a mechanical impediment to urinary drainage through congestion or ordema or the increased vascularity is in itself sufficient to modify ureteral peristalsis to such a degree as to give rise to a dynamic type of obstruc tion by reason of the hypertonic state of the ureter is

not definitely known

The manometric tracings allow classification of preteritis into the three following varieties according to the degree of ureteral activity

First degree ureteritis hyperactivity hyper tonus Cases in this division are those in which an irritative early toxic or inflammatory process is pres ent. There is usually acute colicky pain and vagi

nal examination reveals tenderness along one or both ureters. The manometric tracing shows a marked increase in the amplitude and rate of the peristaltic waves or prolonged tonic (spastic) con tractions There is a strong motor response to the intra ureteral injection of fluid the patient complaining of severe pain when only a small quantity such as from 2 to 5 c cm is gently injected. In ure ters in this class normal activity may be regained or the condition may progress to the second degree

2 Second degree ureteritis hypotonus atonia Cases in this division are those in which ureteral activity is being or has been interrupted by toxic factors inflammatory infiltration or thinning of the muscular coats by dilatation The pain is more con stant and dull On vaginal examination one or both ureters are palpable and tender to pressure The manometric tracing shows either a marked decrease in the amplitude or total abolition of the peristaltic contractions There is either a feeble or no motor response to the intra ureteral injection of fluid. In ureters in this class activity may be regained or the condition may progress to permanent paralysis

Third degree ureteritis paralysis Cases in this division are those in which peristaltic ureteral activity has been permanently abolished because of extensive inflammators infiltration (fibrosis) or be cause of thinning of the muscular coats by marked dilatation (atrophy) On vaginal examination the ureter is usually found to be thickened and may or may not be tender to pressure. The manometric tracing shows complete absence of peristaltic ac tivity and there is no response to the intra ureteral injection of fluid. This type of ureterities is usually secondary to tuberculosis calculous disease diffuse fibrosis etc

Manometric tracings have been made in the follow ing conditions (1) normal (2) hydro ureter and hy droner hro is (3) lithiasis (4) after uretero lithotomy or after the spontaneous passage of a ureteral stone (s) cord bladder (6) bilateral complete duplication of the ureters (simultaneous records of all ureters) and 17) ureteritis of various degrees tuberculous and non tuberculous

In some cases the manometric tracings represent ing the condition of the ureter have been confirmed by the gross and microscopic examinations of the specimen and in others by roentgenograms made following the injection of an opaque solution

The author draws the following conclusions

Relief of amptoms in patients who have ure teritis or ureteropyelitis appears to occur simultane ously with the recovery of ureteral activity but aggravation of the disease seems to be concomitant either with ureteral hyperactivity or with the loss of penstaltic contractile ability

2 Mechanical ureteral obstruction cannot be dis sociated from functional ureteral impairment but very important in renal surgery as it prevents tem porary dehydration with disturbance of kidney function

By the combined anasthesia described Henline obtained successful results in 50 6 per cent of eighty one cases In fort, four cases additional anasthesia was required For operations lasting an average of forty two and two tenths minutes an average of

120 6 c cm of 1 per cent procain was used

JECK believes that spinal anæsthesia is better for nephrectomy than any other form of regional anæsthesia. It necessitates less experience on the part of the anæsthetist it requires much less time and much less manipulation and therefore spares the nervous system of the highly neurotic patient and it is satisfactory in a higher percentage of cases than other forms of regional anæsthesia. In renal tuberculosis it is better than general anæsthesia for nephrectomy because it spares the lungs it has no apparent effect on the kidneys it is associated with less danger of dissemination of the toxic material as it usually requires much less handling of the kidney and it is seldom if ever followed by the very distressing type of ileus which so frequently follows kidney operations performed under general anæsthesia

In twenty one cases Jeck used either novocam Pittan solution (roon gmm dose of novocam) or neocam. The site of injection was the apace between the twelfth dorsal and first lumbar vertebra or that between the first and second lumbar vertebra in some of the cases Jeck used ephodrifue to prevent the marked drop in the blood pressure which almost always follows the intraspinal injection of novocam He obtained better results with Fittin solution than with novocam alone. Not much attention was that with the control of the such signs developed ephodic or an increase in the respiratory movements or adreading was used and the patient placed in the Trendelenburg position.

OCKERBLAD and DILLON report on the use of ephedrine in 250 cases of spinal anæsthesia. They state that in patients subjected to spinal anæsthesia a circulatory collapse occurs which varies in degree according to the patient's age the stability of the circulation the blood pressure the amount of pro cain introduced into the subdural space the length and seventy of the operation and the patient's nervous and general physical condition. There can be no doubt that this is due to paralysis of the splanchnic nerves which is produced by the procain and is followed by dilatation of the splanchnic ves sels causing them to act as a reservoir for nearly all of the blood in the body. It was to combat this condition that the authors began the routine use of ephedrine The pharmacological action of adrenalin and ephedrine is somewhat the same but ephedrine produces a sustained increase in the blood pressure both systolic and diastolic

In cases of hypotension the authors give ephedrine long enough before the administration of the process

to rase the blood pressure from 20 to 30 mm above normal for the patient. As soon as a treducy toward a fall in the blood pressure a bardway tospined anesthesia o.o.g in of ephotic and the spined anesthesia o.o.g in of ephotic and the at intervals of from three to five minutes of the pressure mess. When the summit of the mes as reached the tendency toward a fall is combatted in the same manner.

Serra G Ureterovenous Anastomosis and Its Effects Particularly with Reference to the Production of Uræmia (Lana tomo) uretero temosa ele sue conseguence specialmente in support con la genesi dell'uremia) trek il d de 1918 XIV 137

In experiments on dogs in which Serra established a unilateral anastomosis between the ureter and the iliac vein he found that in a certain percentage of the animals the opening remained permeable for a considerable length of time but in others was promptly occluded by a thrombus. In the latter his findings agree with those of Bruecke In the animals with occlusion the late effects were those of hydro nephrosis In those in which the opening remained permeable Serra did not see the rapidly fatal uræmic symptoms described by Bruecke Instead he found inflammatory and degenerative changes in the liver and kidness and progressive general de pression with a moderate increase in the amount of urea in the blood However the behavior of the xanthoprotein reaction was by no means constant These findings show that contrary to the opinion of Bruecke and others a direct flow of urine into the blood can be borne for some days (as long as ten days in the author's experiments)

The symptoms and pathologosal lesions are itplained by charge in the blood and the establish
ment of a victous circle as a result of the disturbance
of the excretory function. The findings do not
justify the assumption that there is a nephrogentorum. When the renal and hepatic lesions have been
once produced by the disturbance of exchange betener the blood and urine the products of dis
integration of the parenchymatous cells contribute
still further to the damage by their toucts.

Histological examination of the anastomoss showed changes in the structure of the wall of the ven the venous endothelium was destroyed and in some instances there was proliferation of uncertail endothelium on the inner surface of the vent the destruction of muscle cells and signs of unfainmatory infiltration in the media and adientification of the contract of the venture of the contract of the venture of the

Trattner H R Ureteral Activity in Some Pathological Conditions Studied by the Graphic Manometric Method 4rch Surg 1928 xru 968

The author describes a sensitive instrument for the graphic manometric study of ureteral peristal 15 by means of which ureteral activity may be recorded The group of signs cited is not always complete. There may be only a projection of the posterior bor der of the neck or again only a lengthening of the sixthm. The projection of the lateral lobe with efficient of the corresponding groove may occur only on one side. These mechanical changes were

found in 27 of the 200 cases studied

The presence of inflammation of the glandular onfices is a valuable sign. These may constitute true cruties and should be looked for in the lateral groves and in the lossa immediately above the

grooves and in the lossa immediately above the termontanum. They were found in 36 of the cases. The signs described are rarely found alone. There are usually changes in the mucosa of the posterior

urthra These are classified by the author as (1) chronic posterior urethritis with colliculitis (2) posterior urethritis without colliculitis and (3) colliculities and (3) coll

hts without involvement of the urethra elsewhere Changes of the first type were present in 168 of the cases studied. The inflammation was nearly always amited to the posterior urethra. When the anterior urethra was involved the inflammation there was much less intense.

The pathological changes observed in the mucosa of the posterior urethra are

t Simple congestion—an increase in the size and number of the submucous vessels with or without ecchymosis

- ² Diffuse ordema The mucosa is uniformly red
- but distinct vessels are not visible
 3 Organized exdema characterized by the devel
 opment of very vascular globular vesicles implanted
- on a broad base

 4 Irregular fleshy vegetations which bleed at the
- slightest touch

 5 Small circumscribed intensely red granulations
- mail curcumscribed intensely red granulations and ulcerations. These two lessons are quite rare. The ulcerations are difficult to discover because of the exudate that is always present.

6 A cicatricial aspect of the deep urethra. This is still more rare.

The same classification may be applied to the le-

The same classification may be applied to the sions of the verumontanum

Isolated lesions of the verumontanum are uncom mon. The author questions the theory that the state of the verumontanum reflects the state of the semi nal vesicles. In the cases reviewed no such relation ship was noted.

Only 13 of the 200 patients were free from lesions of the posterior urethra

After describing and classifying the endoscopic findings the author discusses the treatment. The treatment must be directed to both the glandular infection and the posterior unretinities. For the prostatists proper the standard treatment is found to be emmently staffsctory but may be supplemented to advantage by the use of stock or autogenous vaccines the application of the high frequency current by way of the rectum (technique of Morgenstern and Varrel) and radium tradiation.

The treatment of the posterior urchittis varies with the lesson In simple congestion urchitrovesical irrigations with argivol or mercuric cyanide and instillations of 6 per cent silver nitrate are beneficial. In diffuse external the use of the monopolar current applied with a glass urchiral electrode and irrigations are indexed. In organized lesions the through the urchitrocape the urchitrocape of the property of the property

To avoid accidents due to infection the urethro gopic applications should be preceded by a long preliminary treatment by irrigations etc. For the urethroscopic treatment the patient should be hos natalized.

The results of treatment rigorously applied are uniformly good Of 31 patients presenting advanced lesions all were treated successfully

ALBERT F DE GROAT M D

550

there may be loss of function in the absence of me chanical interference

3 Manometric tracings are of aid in the detection of early as well as late disturbances of ureteral func tion in the diagnosis of dilated ureter and pelvis with or without opaque studies in the decision as to which ureter should be injected with an opaque solution when there appears to be no difference be tween the two sides and in the determination of involvement of the ureter by tuberculosis calculous disease tumor etc

The types of uretentis are fully elaborated with case histories which are illustrated by manometric tracings roentgenograms and operative specimens J EDWIN KIRKPATRICK M D

BLADDER URETHRA AND PENIS

Hunt V C Malignant Disease in Diverticula of the Bladder J Urol 1929 xx 1

While primary malignant disease of the bladder associated with a bladder diverticulum and with or without secondary involvement of the diverticulum is not common it occurs more frequently than primary malignancy in a diverticulum without in

volvement of the bladder Hunt cites eight cases of primary malignant dis ease confined to a diverticulum of the bladder which have been reported in the literature four cases in

which he operated himself and one case which was

operated upon by Judd Diagnostic features in the cystogram are the projection of tumor tissue through the orifice of the diverticulum into the bladder and a filling defect in

the diverticulum The surgical removal of a diverticulum with malignancy is the same as that of a diverticulum uncomplicated by malignancy Extravesical extir pation is suggested as a means of completely remov ing the growth with minimal risk of transplanting malignant tissue. In the absence of extravesical extension the results of extirpation of the diverticu lum so far as cure is concerned should be better than those of removal of primary malignant dis ease of the bladder

The specimens from the cases reported by the author were found to be squamous celled epithelio mata of a high grade of malignancy according to Broder s classification and similar to squamous-celled epitheliomata primary in the bladder

Moorhead S W Keeping the Patient Dry After Vesical Operations Pe nayleania M J 1928

TEXU ISS

To keep the patient dry after a vesical operation it is necessary to suture the bladder carefully about the dramage tube inserted at the time of the opera The best drain is 1/2 in tubing moulded by being boiled on a form The tubing should be firmly strapped close to the abdomen over a few layers of gauze and tightly joined to a piece of 1/2 in tubing leading to a bottle at the side of the bed

After removal of the initial tube the collection of urine is more difficult. Attempts to absorb the urine by means of large gauze dressings are tarely successful At this time three methods are appli cable suction drainage by the open method the application of a gutta percha or rubber-dam dressing and the use of one of the various types of drain

For suction drainage some mechanical apparatus to suck air must be available. The author has ob-

tained satisfactory results with the Sprengel pump a pump driven by a small electrical motor and an intermittent water syphon pump of the Dawborn

age box or cup

The gutta percha or rubber-dam dressing con sists of gauze and cotton surrounded by gutta percha or a rubber dam except at the operative wound To make a water tight joint between the skin and the tissue the wound is surrounded by adhesive cement

Among the collecting devices that have proved satisfactory are those advocated by Thomas Irving

and Muschat TROWAS F FINTGAY M D

GENITAL ORGANS

Flandrin P Posterior Urethroscopy in the Diag nosis and Treatment of Chronic Prostatitis (De l'urétroscopie postérieure dans le diamostic et le traitement des prostatites chromques) Arch urol de la clin de Necker 1928 vi 165

This report is based on a study of 200 cases of chronic prostations. Most of the examinations were made with the MacCarthy cysto urethroscope and a few with the instrument of Heitz Boyer and that of

the author The use of urethroscopy in prostatitis on a large scale has made possible the isolation of a certain number of cystoscopic signs which are characteristic

of the lesion These signs consist of deformities of the prostate resulting from the infection and consti tute a mechanical syndrome. They are I An increase in the length of the prostatic ure

thra to which both the segment above and below the verumontanum contribute

2 An abnormal projection of the posterior border of the bladder neck which to a greater or lesser de gree obscures the trigone and the ureteral orifices

3 Effacement of the lateral grooves of the pros tatic urethra 4 Intra urethral projection of the lateral lobes

which is more or less prominent and nearly always irregular in contour

The two lateral projections are usually of small size and are easily distinguishable from the deformity produced by an adenoma In the differentiation of the two conditions the patient's age and the results of the rectal examination must be considered but it should be borne in mind that in chronic prostatitis the lengthening of the urethra occurs both below and above the verumontanum whereas in cases of ade noma only the upper segment of the prostatic are thra is affected

best done after the twelfth year of age Lateral de formity is prevented by fixation of the subastragaloid joints and balance is restored by backward dis

placement of the foot

Arthrodesis of the shoulder may be done in cases with strong scapular muscles and paralysis of the deltoid and other shoulder muscles When the shoulder is arthroded in from 50 to 60 degrees of abduction and from 10 to 15 degrees forward from the sagittal plane the substitution of the scapular movement provides good function

In paralysis of the back muscles with increasing deformity fusion of the spine is indicated

WILLIAM A CLARK M D

Juengling O Osteitis Tuberculosa Multiplex Cystoides Also a Contribution on Tuberculids of Bone (Leber Ostitis tuberculo a multiplex cystoid s zugleich ein Beitrag zur Lehre von den Tuberkuhden des Knochens) Bestr klin Chr 10 8 cxlin 401

Juengling presents a detailed description of osteius tuberculosa multiplex cystoides reviews forty six cases reported in the literature and reports

in detail nine cases of his own

The disease is often associated with two skin diseases lupus pernio and the sarcoid of Boeck which are similar to each other both clinically and histo logically In the former bone changes are common but in the latter they are less frequent. The bone disease may develop also without skin changes or may affect the skin secondarily Hygromata in the tendon sheaths and bursæ are common associated

Osteitis tuberculosa multiplex cystoides occurs most frequently in the basal and middle phalanges of the fingers and toes the metacarpals terminal phalanges and metatarsals and the root of the nose Only occasionally does it affect the long bones

It begins in youth puberty seeming to establish a predisposition to it It usually develops with in dammatory swelling and rheumatoid pains and spreads by attacks In the affected thickened parts of the limbs the dorsal veins are prominent and the skin becomes bluish red On further progress of the condition granulations may rupture through the skin There is no suppuration and the mobility of adjacent joints is not disturbed. In some cases s rethicial efflorescences from the skin are present from the beginning Frequently the patient is very sensitive to cold Occasionally there are trophic thanges in the nails from the disturbance of the circulation In very severe cases mutilation results

The roentgenogram reveals rarefication of the bone beginning in the marrow The bone shows a honevcomb structure with spotty lighter areas like punched out holes which are diffuse or localized in circum enbed areas and are particularly numerous in the heads of the phalanges

The diffuse type represents a florid initial stage and the circumscribed type a healing form of the condition Between these there are transition types In a third type with a slow course the roentgeno gram shows diffuse finely spotted light areas a delicate lattice structure of the bone author's opinion marked destruction occurs in the diffuse form with large spots

Sclerosis is of relatively little importance and as a rule there is no periosteal irritation although slight bony swellings are observed Sequestrum formation and disturbances of growth do not occur Runture into a joint is very rare but arthritic irregularities

may form when the condition is of long standing With regard to the pathological anatomy and the etiology of the disease, the author states that under certain conditions the body reacts to the virus of tuberculosis in a typical special form the chief characteristics of which are a negative tuberculin reaction and the formation of tuberculous nodules from epithelioid cells and fibroblasts with a few marginal lymphocytes with or without Langhans giant cells but always without caseation. This type of reaction is most common in the skin (lupus pernio and Boeck s sarcoid) but may affect also the deeper layers of the connective tissue the bursæ the tendon sheaths and in the typical form the bones especially the metacarpals metatarsals and phalanges in the form of central bone foct which cause more or less destruction of the bone without producing any signs of periosteal irritation. In the roentgenogram, the bone foci appear like cysts and are always multiple The disease may develop in the same typical reaction form also in the internal organs in association with ordinary tuberculosis

The condition must be differentiated from spina ventosa osteitis fibrosa lues lepra tuberosa and enchondromata Particularly lues in the tabetic and paralytic stages and lepra tuberosa may present very similar roentgen findings. When the diagnosis is difficult the efflorescences of the skin may be of great aid

The course of the disease is usually chronic The bone changes have only a very slight tendency to

heal It has not been determined whether any thera peutic measure will be effective in this condition. In a few cases treated by roentgen irradiation the skin foci have receded markedly but the bone foci have remained uninfluenced KOENIC (Z)

Albee F H The Principles of the Bacteriophage Applied to Osteomyelitis Internal J Med or Surg 1929 xln 1

Albee discusses the Orr method of treating osteomyelitis and reports several cases in which it was used. He believes that when the tissues are bathed by exuding pus retained in situ by a plaster of Paris bandage an immunizing reaction is produced at the site of infection D Herelle calls the trans missible lytic principle a bacteriophage and be heves that it brings about changes which increase phagocy tosis

In Albee's opinion the Orr treatment reduces the tension and bathes the infected zone with an

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Diveley R L Anterior Poliomyelitis A Study of the Acute Stage with Special Reference to the Early Diagnosis and Treatment J Bone & Joint Surg 1929 XI 100

Of 185 cases of anterior poliomyelitis which occurred in the epidemic of 1923 77 per cent de veloped during the months of July August and September Eighty of the patients were under four sears of age seventy one were between the ages of four and fifteen years and thirty four were over fifteen years of age There were thirty eight deaths

a mortality of 20 per cent

In the upper extremities the paralysis was first noted in the proximal groups of muscles and extended distally and recovery occurred in the opposite direction. The deltoid was the muscle most often affected and least likely to show regeneration to normal In the lower extremities the paralysis began in the distal groups of muscles and extended proximally recovery occurred in the opposite direction and the muscle most frequently affected was the tibialis anticus

In only 12 of the cases was a spinal puncture made for diagnosis or treatment. It is noteworthy that when spinal drainage was done and repeated to keep the intraspinal pressure down the acute symptoms often disappeared immediately the paralysi was

light and recovers was rapid

None of the patients was given human con valescent serum or the immunized horse serum of Rosenow In a very large percentage of the cases the diagnosis of poliomyelitis was not made until

after the development of paralysis

Of 14 cases studied by the author during the epidemic of 19 5 4 were treated medically and 10 with serum and spinal drainage. In the cases in which Rosenow's serum was used recovery was more rapid and the paralysis less marked and extensive than in the untreated cases. The effect of spinal drainage on the acute symptoms was almost phenomenal the symptoms disappearing for the most part very soon after the dramage and recurring only when the spinal pressure was again rai ed above the normal The death rate was much smaller in the treated series

In experimental studies on monkeys it was found that the animals could be immunized against an active virus of poliom) elitis by human convalescent serum and the anti streptococcus serum of Rosenow but the immunization was much more complete when human convalescent serum was used

In conclusion the author states that the treatment indicated for the first or active stage of acute poliomy elitis is absolute rest general freatment for fever early and frequent spinal drainage to keep the spinal pressure down and the intravenous or intra muscular administration of specific serum ROBERT C LONERGAN M D

MacAusland W R Deformity in Infantile Paraly Sis Its Prevention and Correction Yew England J Med 1929 cc 18

For the prevention of deformity in infantile paralysis the limbs should be placed in a position which will relax the paralyzed muscles. In most cases the foot should be at a right angle the knee in extension the hip in abduction the elbow at a neht angle the shoulder in abduction and the wrist in hyperextension These positions may be maintained by light plaster casts or well fitted braces. In cases of paralysis of the back the use of a plaster shell with the spine in slight hyperextension i advisable While the limbs are in the casts undue atrophy of the muscles may be prevented by massage and exercise

The method by which deformity is corrected de pends upon the degree of the deformity Slight contractures of the soft tissues and very early bony deformities may be corrected by manipulation. In most cases tenotomies should be avoided until mampulative treatment has been given a thorough trial Operations of consequence should be delayed until at least two years after the acute stage of the disease and until the child is at least seven years old Tendon transplantations have proved unsatis factory as a rule but are of value in conjunction with stabilizing operations on bones. They may give successful results also in selected cases of paralysis of the arm and hand in which weight

bearing is not required

In cases of extreme deformaty it is necessary to attack the bone to secure correction and maintain a stabilized new position. The foot is the most common site of such deformities. Of the many methods suggested for the correction of severe deformities of the foot astragalectomy and subastragaloid arth rodesis are used most frequently. Astragalectomy is the method of choice for talipe calcaneovalgus and is a very good operation also for fail foot equinus equinovalgus severe claw foot and certain cases of valgus and varus deformity When properly per formed it shifts the weight of the body forward on the foot by displacing the foot backward under the leg Restoration of balance by this means is es pecially successful when the peroneal tendons are transplanted into the tenden of Achilles in con junction with astragalectomy

Subastragaloid arthrodesis is a good operation for milder cases of varus valgus and calcaneus. It is best done after the twelfth year of age Lateral de formity is prevented by fixation of the subastragaloid tomts and balance is restored by backward dis

placement of the foot

Arthrodesis of the shoulder may be done in cases with strong scapular muscles and paralysis of the deltoid and other shoulder muscles. When the shoulder is arthroded in from 50 to 60 degrees of abduction and from 10 to 15 degrees forward from the sagittal plane the substitution of the scapular movement provides good function

In paralysis of the back muscles with increasing

deformity fusion of the spine is indicated

WILLIAM A CLARK M D

Juengling O Osteitis Tuberculosa Multiplex Cystoides Also a Contribution on Tuberculids of Bone (Ueber Ostitis tuberculosa multiplex cistoides zugleich ein Beitrag zur Lehre von den Tuberkuliden des Knochens) Beit z klin Chir 1928 ctlm 401

Juengling presents a detailed description of osteitis tuberculosa multiplex cystoides reviews forty-six cases reported in the literature and reports

in detail nine cases of his own

The disease is often associated with two skin dis eases lupus permo and the sarcoid of Boeck which are similar to each other both chinically and histo logically In the former bone changes are common but in the latter they are less frequent. The bone disease may develop also without skin changes or may affect the skin secondarily Hygromata in the tendon sheaths and bursæ are common associated lesions

Ostentis tuberculosa multiplex cystoides occurs most frequently in the basal and middle phalanges of the fingers and toes the metacarpals terminal phalanges and metatarsals and the root of the nose

Only occasionally does it affect the long bones It begins in youth puberty seeming to establish a predisposition to it. It usually develops with in flammatory swelling and rheumatoid pains and spreads by attacks In the affected thickened parts of the limbs the dorsal veins are prominent and the skin becomes bluish red On further progress of the condition granulations may rupture through the skin There is no suppuration and the mobility of adjacent joints is not disturbed. In some cases superficial efflorescences from the skin are present from the beginning Trequently the patient is very sensitive to cold Occasionally there are trophic changes in the nails from the disturbance of the circulation In very severe cases mutilation results

The roentgenogram reveals rarefication of the bone beginning in the marrow. The bone shows a honeycomb structure with spotty lighter areas like punched out holes which are diffuse or localized in Circumscribed areas and are particularly numerous in the heads of the phalanges

The diffuse type represents a florid initial stage and the circumscribed type a healing form of the condition Between these there are transition types

In a third type with a slow course the roentgeno gram shows diffuse finely spotted light areas a delicate lattice structure of the bone. In the author's opinion marked destruction occurs in the diffuse form with large spots

Sclerosis is of relatively little importance and as a rule there is no periosteal irritation although slight bony swellings are observed Sequestrum formation and disturbances of growth do not occur Rupture into a joint is very rare but arthritic irregularities may form when the condition is of long standing

With regard to the pathological anatomy and the etiology of the disease the author states that under certain conditions the body reacts to the virus of tuberculosis in a typical special form the chief characteristics of which are a negative tuberculin reaction and the formation of tuberculous nodules from epithelioid cells and fibroblasts with a few marginal lymphocytes with or without Langhans giant cells but always without caseation. This type of reaction is most common in the skin (lupus pernio and Boeck s sarcoid) but may affect also the deeper layers of the connective tissue the bursæ the tendon sheaths and in the typical form the bones especially the metacarpals metatarsals and phalanges in the form of central bone foci which cause more or less destruction of the bone without producing any signs of periosteal irritation. In the roentgenogram, the bone foci appear like cysts and are always multiple The disease may develop in the same typical reaction form also in the internal organs in association with

ordinary tuberculosis The condition must be differentiated from spina ventosa ostertis fibrosa lues lepra tuberosa and enchondromata Particularly lues in the tabetic and paralytic stages and lepra tuberosa may present very similar roentgen findings. When the diagnosis is difficult the efflorescences of the skin may be of great aid

The course of the disease is usually chronic The bone changes have only a very slight tendency to

It has not been determined whether any thera peutic measure will be effective in this condition. In a few cases treated by roentgen irradiation the skin foci have receded markedly but the bone foci have remained uninfluenced

Albee F II The Principles of the Bacterlophage Applied to Osteomyelitis Internat J Med or Surg 1929 xlu 1

Albee discusses the Orr method of treating osteomyelitis and reports several cases in which it was used. He believes that when the tissues are bathed by exuding pus retained in silu by a plaster of I aris bandage an immunizing reaction is produced at the site of infection D Herelle calls the trans missible lytic principle a bacteriophage and be heves that it brings about changes which increase phagocytosis

In Albee's opinion the Orr treatment reduces the tension and bathes the infected zone with an increasing concentration of bacteriophage so both dissociation and phagocytosis of the infecting organisms are accelerated Paul C Colonna M D

Durman D C Myeloma of the Spine Ann Surg 1928 lxxxviii 975

The author reports a case of multiple myelomata in which the primary growth was believed to be in

He states that the outstanding symptom in all cases of spinal myeloms as pain due to crosson of the percosteum from within and pressure upon the nerve roots following collapse of the vertebrie. The nerve most characteristic clinical sign is a progressive diornity resulting in a posture in which the above protrudes the shoulders are held back the head is held forward and the feet are wide apart

The laboratory findings include a secondary anamia with frequently a leutocytosis. On account of the extensive medullary involvement which is often present a blood dyscrasia is not surprising Beace Jones bodies are probably present in the unne at some time in all cases but frequently they are not found and they are not essential for the

diagnos

In the author's opnason the most valuable dangsostic and is the roentieg ray In the roent genogram all bones except the vertebre have a reason of the rest of the

Pittoni E An Enchondroma of the Right Trans verse Process of the First Lumbar Vertebr Re vealed by Roentgen Examination (Encondrom dell apoins trasversa destra della prima vertebra lombare messo in evidenza con l'indagne radiolonca) Reforma mel 1918 silv 1918.

The patient whose case is reported was a many thresh yies yets of age with a negative history. When examined for the army he was dismissed on account of girbbis. In February 1956 he legal to have slight pain at the base of the right thorax next the spinal column. This pain was continuous at first it was not very intense but it increased as seventy until family there were partorysms of severe pain radiating to the right thigh. There was no feer emagnition or loss of appetite. The patient's physician sent him to the hospital for the application of a plaster each for Pott's disease.

Inspection received a tumor with its left boundary almost on the line of the spinous processes its right side a little beyond the midscapular line its top at the level of the twittlin bin and its base below a transverse line passing through the base below at transverse line passing through the base below at transverse line passing through the base below at transverse line passing through the passing through the level of the level

pandul Exploratory puncture was negative Rossi, gen examination showed that the transverse process of the first lumbar vertebra had disappeared while that of the second was shortened and deforated as if by a weight resting upon it. There was an opague zone in the region of the tumer into and around which the author injected photol. The examination with injuried showed that the tumor on, manted from with injuried showed that the tumor on, marted from the process of the contract of the contr

The neoplasm was removed on November 20 under tropcoccam spinal anesthesia Examination showed it to be an enchondroma with cystic degeneration in the center.

The patient was discharged as cured at the end of two weeks. A year later he was in excellent con dition with no symptoms to indicate either local re currence or metastasis. Auprey G. Morgay, M.D.

Guillaume Louis The Anatomical Findings in a Case of Rupture of the Quadricey Tendon (Note & propos dun cas de rupture du tendon quadricipital constitutions anatomiques) Bull et mêm Sec noi de thr. 1998 [Iv 1974]

A gymnast fell from a horizontal bar and landed on his feet in a squatting position He felt a volent pain in his right thigh and was unable to ree Go camination a deep depression was found in mediately above the patella. The patent could not trace his helf from the brid in the patent could not trace his helf from the brid in the patent could not have been been assessed to the country of the patent of the patent of the patent of the patent of the made.

At operation the region above the patella was ex posed through a median longitudinal incision. The rupture of the tendon was found to be clean cut and to include the lateral aponeurotic expansions and the synovial membrane of the joint. The three easily distinguished layers in the tendon were sutured separately The deep layer consisted of the tendon of the vastus intermedius and lay on the anterior surface of the patella in a large hæmatoma This was sutured to the under surface of the tendon of the rectus femoris The middle layer was formed by the interlacing fibers of the tendons of the vastus later alis and vastus medius. Here the rupture was ver tical This breech was closed and the tendons were autured to the borders of the rectus femoris tendon The superficial layer which was ruptured trans versely consisted of the rectus femoris tendon The two ends were united by interrupted sutures

Massage was begin on the fifth day and mobilization on the ninth day after the operation. Faftren days later the patient was able to walk and eventually stated to the control of the cont

ally he made a complete functional recovery.
The anatomical findings at operation conformed to the description given long ago by Forier. The usual tear of the synovial membrane is explained by the distention of the muscle fibers termed the

the distention of the muscle fibers termed the articularis genu muscle. The vasti tend to separate in the midline but preserve their connections with the patella hence the necessity of suturing their borders to the tendon of the rectus femoris to re establish their function ALBERT F DE GROAT M D

liester O The Pathogenesis Clinical Aspects and Treatment of the Flall knee in Its Relation to the Collateral Tibial Ligament (Ucber die Pathogenes Minik und Therapie des Wackelknies in senter Benehung zum Ligamentum Collaterale bballs) Burr b Abbandl o d Gesomitgeb d Med 1928 y 145.

The author discusses only cases of fluil knee in which the internal lateral lingment is directly or directly responsible for the laxity of the joint. The most important defect in the lingment causing the modificing is affect break. This may result from taseation suppurative degeneration or direct insumatic division. It is are as compared with the indirect break which may result from distortion abduction byperextension and luxation. In the indirect break which may result from distortion disduction byperextension and luxation. In the indirect break the ligament itself is not ruptured but it form look from its insertion into the bone. The internal lateral ligament is injured much more frequently than the external lateral ligament.

weany toan the external lateral ligament.

Inother cause of lateral mobility of the knee is
occurrentlying of the internal lateral ligament
butch oversitetching may be caused by an exudate
in the kace joint. It may result also from prolonged
trainson tertainent of a fracture of the thigh. In
direct stretching of the internal lateral ligament may
be produced statically and in neurological conditions
such as symmomyelia myelitis and peripheral
parklass.

In the diagnoss of a fluit knee the lateral move means of the point are of chief importance. While the thigh is fixed the leg can be rotated externally. The taken yout and sometimes also internally. The examinations should be made with the leg completely stituded. Among the sequelic of fluit knee are arithmis deformans and chrome serous arthritis

The transforman and chronic serous arthritis on of the function of weight bearing. Conservative to one of the function of weight bearing Conservative treatment the structure of weight bearing the structure of t

The article is supplemented by an extensive bibliography ZILLMER (Z)

Nouchet A Metatarsal Epiphysitis J Bone &

Joint Surg 1939 is 87

Metatarsal epiphysitis is known also as Koehler s
d. case of the second metatarsophalangeal articula

tion second Koehler's disease (to distinguish it from Koehler's disease of the tarsal scaphoid) infraction of the second metatarsal head (Frei berg) and osteochondritis of the metatarsal heads

It is less rare than has been thought but unless a roentgen ray examination is made it remains un suspected. It occurs most often between the ages of twelve and twenty years and more frequently in females than in males As a rule it involves the head of the second metatarsal, but has been found also in the third and the fifth metatarsal Its onset is slow with pain in the forefoot at the level of the second and third metatarsal heads which is increased on standing or walking and ceases after rest. There is no deformity and no loss of mobility. I ain is caused by pressure at the site of involvement and there may be slight swelling Frequently the anatomical bone changes do not appear in the roentgenogram until after several weeks. The roentgenogram shows an irregular indented contour with alternate zones of rarefied and condensed bone. At times there is a well

tensite.

In the author's opinion, the condition is an attenuated osteomielitis. The prognosis is good there being a tendency toward spontaneous cure. Mouchet says however that the course of the disease is long—at least eighteen months—and unless proper treat ment is given the lesson may result in disabling arthritis deformans.

defined cuneiform osseous zone suggesting a seques

trum The roentgen ray appearance is very charac

The author recommends the use of crutches with immobilization in plaster for six months if the case is seen early and resection of the metatarsal head if the condition is advanced

ROBERT C LONERGAN M D

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Calissano G Interposition of Fixed Cartilage
Between Bone Stumps for the Purpose of
Producing a Nearthrosis (I persenze dinter
posizione di cartilagine fissata fra moncon ossial fine di ottenere una neoartrosi) irch itali di cliri
1928 XXII 206

Though good functional results have been obtained experimentally in ankyloses it cannot be said that heretofore a true nearthrosis has been produced. The formation of a new joint requires two bone ends capped with articular cartilage to prevent their fusion and a joint capsule containing synovial fluid. The author describes experiments in which he

took disks from the costal cartilages of calves fixed them in 05 per cent alcohol and then implanted them in the ribs of guinea pigs. The guinea pigs were killed and the grafts examined after periods varying from a month and a half to ten months.

In all of the earlier stages there was solid fixation between the cartilage disks and the bone ends. In the specimens examined after ten months the end of the two bones were covered with a thin layer of connective tissue derived from the periosteum. Be tween this layer and the disk of cartilage on each side there was a cushion of tissue made up of stellate cells and showing large meshes containing in some places a granular détritus and in other places residues of delicate fibrils Toward the center of the cushion the areolar tissue had disappeared and there was a cavity containing only a delicate reticulum of co applated substance

These findings show that after a long time the conditions around the grafted cartilage are similar to those found in the developing joints of the fetus there being a tendency on the part of the grafted cartilage to soften and produce a fluid resembling

synovial fluid The experiments indicate that if a joint is to be

formed by the grafting of cartilage between two bone ends equal pressure must be exercised by a smooth and resistant surface on the callus at the ends of the stumps to form an articular cartilage and there must be movement of the two ends to form a synovial cavity Audrey C Morgan M D

Galeazzi R The Treatment of Scoliosis J Bone & Joint Sure 1020 to 81

In cases of scoliosis the author gives preparatory mobilizing treatment and then proceeds to over correct the deformity with the aid of an apparatus he has devised

The apparatus consists of two independent units one of which fixes the scapular region and the other of which fixes the pelvic region. The patient is placed in the apparatus with the trunk horizontal

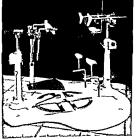


Fig 1 The author's apparatus for the correction of scolio 1

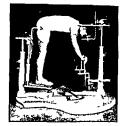


Fig 2 Patient in apparatus Feet on moval le platform Pelvic girdle retained shoulder girdle retained. Hand on rest and forehead on rest

and the hips and arms flexed so that the spinal column is suspended from two end buttresses similar to its position in a quadruped. By varying the dis tance between these two end units and their relative heights above the ground it is possible to place the spine in the most favorable position for correction When the proper position has been obtained the two end units are secured at the exact reciprocal distance necessary for the apex of the dorsal and lumbar curves to correspond exactly to the centers of the rotatory movement and lateral flexion of the two units (i.e. in a double curve) The scoliotic column is fixed at the two extremities by the application of plaster of Paris over two belts. Later these two portions are joined by two intermediary sections. When the cast is finished the patient stands in a bent over position and walks with the body flexe! and bent toward the convexity as in the Abbott method but not so markedly. A successful result depends upon a long preparatory mobilizing treat ment The superiority of the treatment to other methods

seems to be due to the rationale of the correction which is effected by derotation and deflexion methods instead of by direct force

ROBERT C LOVERGA M D

The Results of Spine Fusion for Lleinberg S Scollosis J Bone & Joi 15 rg 1929 11 66

In the operation performed by the author for structural scoliosis the posterior arches of the verte bræ are denuded the articulations scarified and seg ments of bone from the laminæ are elevated and placed across the interlaminar spaces A large beef bone graft (or a rib graft) is then inserted on the concave side of the curve and each spinou, process is split into five or six fragments in order to obtain

estensive contact between adjacent vertebræ and between the graft and normal bone

Theoretically the primary curve should be fixed but it is sometimes difficult to determine which is the primary and which the secondary curve. The fusion extends beyond the limits of the curve to normal or at least transitional vertebre. As a rule it is found necessary to fuse the dorsal area. In a compound curve the dominant curve or the more de formed segment is fused

The operation is preceded by a period of from four to eight weeks of recumbency on a convex frame with traction After the operation the patient is kept recumbent on the convex frame for from six to eight weeks and is then discharged wearing a plaster cast The cast is changed every two months and at the end of from nine to twelve months is replaced by a celluloid corset to be worn for one year

The operation is serious and difficult and should be performed only by those who have acquired the requisite skill and with the aid of an expert ances thetist

The author has performed it in ninety cases Recently he has re examined fifty four patients who ere treated from one to seven years ago With re gard to the effect of the operation on the patient s growth he states that in thirty one of the fifty four patients there has been an increase in length of from I to 6 in The results of the operation were excellent 18 78 per cent of the cases good in 13 per cent and poor in 9 per cent In the seven cases with good results the back appears satisfactory to the patient and his family but the roentgenogram shows a doubtful or slight increase of the spinal curve In all of the cases with poor results there is definite evilence of osseous fusion of the vertebræ operated upon and no sign of a break in the union of the vertebra. In two cases the deformity has become steadily worse and there is no apparent explanation of the failure In or per cent of the cases the de formity has been arrested the appearance of the back is satisfactory and the patient has gained weight and strength and is free from backache

ROBERT C LONDRGAN M D

FRACTURES AND DISLOCATIONS

Winen H P Treatment of Fractures with the Equilibrated Swinging Traction Apparatus Surg G ne & Obst 1929 thin 90

The suspension apparatus known as the Balkan frame was originated by Metz of Amsterdam in 1903 It acquired its present name when it was in troduced into Serbia by a Dutch ambulance unit la the original treatment for fracture devised by Me z the patient was placed in a half sitting position with the normal leg braced against a solid box at the fort of the bed Fraction was obtained by (1) a reight suspended to adhesive straps (2) the weight of the leg directed obliquely down at an angle of 20 degrees and (3) the horizontal components of the forces acting upon the cords which suspended the leg in an oblique direction Countertraction was obtained by (1) the push of the uninjured leg against the box () the friction of the body on the bed and (3) a woolen sling which encircled the groin of the un injured side and was tied to the head of the bed. The semi sitting position is of advantage especially in the cases of elderly patients as it tends to prevent

the development of pneumonia In the Noordenbos Surgical Clinic in Amsterdam the Steinmann skeletal traction is now used almost exclusively instead of adhesive straps. Rigid side splint separate for the leg and thigh and allowing knee motion are used for suspension instead of the original hammock and rings The Steinmann nail i driven through the spongy bone under operative technique but without a preliminary skin incision When there is much over riding of the fragments the skin is held retracted proximally while the nail is being inscribed. Once a week the bandages around the ends of the nail are removed and the area is dis infected. On removal of the nail one end is sterilized with alcohol and picric acid and the other end is grasped with the forceps and pulled out Nails made in a piece are used. The occasional occurrence of infection or a persistent sinus is regarded as trivial as compared with the poor results of treatment with out direct skeletal traction

For the treatment of fracture of the femur a seat as wide as the bed 60 cm long and from 40 to 45 cm high and having a padded back and sides is con structed at the head of the bed Abundant freedom of body motion is allowed. The Steinmann pin is inserted at right angles to the general long axis of the thigh (not the long axis of the bone) Persistent angulation of the fragments is corrected by differen tial extension on the ends of the nail. The leg and thigh are suspended independently each to its own overhead arch In order to prevent the constriction that is caused by a cloth hammock, the thigh is placed in a wide curved gutter of thin metal. When the fracture is in the lower end of the femur and there is posterior displacement of the distal fragment, the knee is moderately flexed. The extension then tends to pull the displaced fragment forward by leverage the condules in contact with the articular surface of the tibia acting as a fulcrum. In cases of subtrochanteric and intratrochanteric fractures abduction is obtained by means of an adjustable pulley on an adjustable horizontal bar at the foot of the bed

Fractures of the leg bones are treated by extension by means of a pin through the os calcis if the fracture is in the distal half or is compound. When the frac ture is in the proximal half the pin i introduced into the tibia near the distal end. Suspension is obtained by a hammocks independent of each other I for the distal and I for the proximal fragment By this means the position of the fragments may be changed to effect reduction

The suspension method is especially valuable for fractures involving joints. When the knee joint is involved the nail for extension is placed through the distal end of the tibia Joints involved by fractures

are given early active and passive motion which is

easily done with the suspension method Fractures of the humerus are treated by suspen sion and traction with the pin through the olecranon

and the elbow at a right angle. If the break is at the proximal end the humerus is abducted

Fractures of both the radius and the ulna which cannot be reduced by conservative means are treated by suspension traction one pin being placed through the olecranon and another through the distal ends of the two bones The elbow is at a right angle and the forearm vertical A weight is hung on the pin through the olecranon and the usual pulley cord and weight are attached to the distal pin

The author tabulates the results in 157 fractures of the lower extremity and 49 fractures of the arm which were treated by this method at the Binnen Gasthus in Amsterdam In the cases of adults the period of hospitalization was as follows fractures of the thigh seventy three days fractures of the leg filty two days fractures of the upper arm twenty eight days and fractures of the forearm thirty days There were 6 cases of infection at the nail wound In r the wound drained for a year but in the others it closed in an average of six days

WILLIAM A CLARK M D

Silfverskiöld N The Treatment of Fracture Dislocations of the Shoulder Joint

chiring Scand 1928 lxiv 227 The author reviews the literature on fracture dis locations of the shoulder joint and reports sixteen cases At the time of the injury his patients were between twenty five and fifty years of age. In nine of the thirteen cases in which reduction by open operation was done re-examination showed a very good or good functional result. In six cases in which the displaced head fragment had lost all connection with the capsule or periosteum bony union with practically normal function occurred after open reduction in four

The union obtained in these cases is compared with that obtained in medial fractures of the neck of the femur. The author considers it possible that the stripped displaced head fragment is always capable of bony union that union and non union after reduction depend exclusively upon the treat ment With regard to the treatment he draws the

following conclusions The contra indication is marked impairment of the general health

2 In the presence of contra indications manipu lative reduction may be tried under ethyl chloride anæsthesia in some cases

- Reduction by open operation is to be con sidered the routine method and should be done as soon as possible after the injury 4 Primary resection is indicated only in cases of
- exceedingly severe comminuted fractures especially those of the head and in cases in which the general condition will permit only a relatively brief open operation

5 After resection of the head arthrodesis (and perhaps arthroplasty) may sometimes give better functional results than mere adaptation of the upper

end of the shaft to the socket

6 In reduction by open operation loose bone splinters should also be fitted in and the large frag ments carefully approximated or wedged in Flans of capsule or periosteum should be replaced and if possible sutured Occasionally periosteal trans plantation may be advisable. If osteosynthesis is found necessary the use of a tibial graft chromicized catgut or small metallic nails should be considered

7 The arm should be fixed in the scapular plane in abduction of 80 degrees and external rotation of 45 degrees The fixation should be done on an abduc tion splint made ready before the reduction and very

firmly fixed to the trunk,

8 As a rule the time of fixation should not be less than three weeks but its length should be deter mined by the roentgen findings and the way the head follows smaller rotary movements of the arm 9 Re-educative movements should be supervised by an expert and continued for from one half to one

Eliason E L Fractures of the Clavicle J 4m M Ass 1928 XCI 1974

This article is based on a series of 500 cases of fracture of the clavicle Forty-one per cent of the patients were children under ten years of age. In 10 cases the fracture occurred at birth. In adults the fracture is usually due to indirect violence and as a rule is transverse and occurs in the outer third of the bone Fractures at the outer end of the clavicle may be confused with acromioclavicular dislocation In the cases of children careful attention to detail in the roentgen examination is necessary to avoid over

looking a greenstick fracture The fact that eighty five methods have been sug gested for the treatment of fracture of the clavicle is evidence that an ideal method has not yet been found The treatment should depend somewhat upon the wishes of the patient. If the patient desires the best possible anatomical result without shorten ing he must submit to recumbent treatment on his back with the arm of the affected side abducted with weight extension for about three weeks For am bulatory treatment the most satisfactory method is the use of a posterior splint which pulls the shoulder backward and because of the upward slope of the chest wall also upward Any dressing which binds the arm to the body will not maintain the backward position of the shoulder As a rule good union and good function are obtained Open reduction is sel WILLIAM A CLARE, MD dom necessary

Thomas T T A Contribution to the Mechanism of Fractures and Dialocations in the Elbow Region Ann Surg 1929 limit 108.

In experiments on cadavers the author found that when direct force is exerted on the hand as in a fall it is transmitted up the arm causing flexion of the elsor The upward thrust may either drive the rubis and ubia upward and backward behind the reds of the bumers or may break off the end of the bumers at its point of least resistance; just alone the codyles. As the radius and ulna are held to giber by the strong interosesous band as well as to giber by the strong interosesous band as well as to be the legislation of the strong interior to the strong interior to sea to be the strong interior to the strong interior to sea the strong such a longitudinal thrust.

The only injury to the skeleton that has generally ben ascribed to a fall on the hand is the Collesfracture but the author contends that such a fall will frequently cause fracture or dislocation at the flexed

elbow rather than at the wrist

In thow fractures the distal fragment of the bucurus almost always goes upward and backward butmay also go laterally in either direction depend on the one of the business and the size of the hand. This is treated on the bucut or the hypothenia side of the hand. This is treated to the thing the size also of the official fragment in Colles fracture knowingly there is a close resemblance between such breaks at the winst and the elbow.

These fractures are more easily explained by seems of the show with the fracturing force than by stemson. When in the author's experiments the schow was faced in flexion fracture of the coronous process was produced five times in ten trails but produced five was an extension, the fracture was produced flow as an extension, the fracture was produced flow as an extension. The operand cours without dislocation of the ulma. The operand that of the coronoud is the force which breaks off the couple and sometimes also splits them exitingly a important factor in the splitting is the wedge.

effect of the ridge on the coronoid and olecranon Astron dislocation of the radius may occur with or without facture of the promunal end of the ulna li may be produced by a fall on uneven ground in which a resistant object strikes only the radius near it lead. If the force strikes the ulna abo it will due either a facture of both bones near the proximal end or a fracture of the thones near the proximal end or a fracture of the ulna and dislocation of the radius. Withiu A Class M D

Edwards II and Clayton E B Fractures of the Lower End of the Radius in Adults Bril 11 J 1929 1 61

The authors review 424 cases of fracture of the loase end of the radius which were treated at king's College Hospital in the three years from 1924 to \$6.00 Three hundred and thirty nine were of the Colles type and \$6.00 to \$1.00 to \$1.00

Colles type and 85 were backfire fractures.

The mounts of the fractures of the Colles type are transit, of the fractures of the Colles type are transit, and occurred at the upper limit of the radial surface and occurred at the super limit of the miseror radio ulms. The surface was a fractured fractured that the surface was required fractured f

The most common type of backfire fracture was an oblique fracture through the radial styloid with or without fracture of the ulnar styloid

In the discussion of the treatment emphasis is placed upon the importance of perfect reduction of the backward tilt of the radial articular surface. The radial displacement of the hand and backward displacement of the fragment must also be corrected. After the reduction the authors prefer to use Carr is splint in the majority of cases. In the cases of old patients massage is begun during the first week but in the cases of young patients may not be given until after fourteen days. In the cases reveneed the average duration of treatment was nine and a half weeks.

Magliulo A Fractures of the Base of the First Metacarpai with Special Reference to the Mechanism of Their Production (1e frature della base del primo metacarpo conspeciale riguardo al loro meccanismo di produzione) Chir d organi di movimento 1918 31 587

The author accepts Tanton's classification of fractures of the base of the first metacarpal into two main groups intra articular fractures and extra articular fractures. The first include transverse and the oblique varieties. The second are represented by Bennett's fracture and Rolando's fracture.

Bennett's fracture is usually described as an oblique fracture involving the median volar portion of the articular surface which is associated with slight displacement of the lesser fragment and apparent subluvation of the thumb at the carpo metacarpal joint

Rolando's fracture is I shaped and forms three fragments. It is rarely associated with subluxation

of the thumb

In a period of fourteen months the author saw nine
fractures of the base of the first metacarpal. Four
were of the Bennett type and five were extra
articular. These cases are reported in detail. The
author's conclusions are as follows.

1 Fractures of the base of the first metacarpal while rare are frequent as compared with fractures of the other metacarpals and fractures of the diaphy

sis and epiphysis of the bone

2 While the most common cause of such fractures is indirect violence such as is sustained in a fall on the hand the fractures may result also from trauma to the head of the first or second phalanx of the thumb

3 The mechanism of production of the fractures is very complicated
4 As a rule the fractures are complete

5 The symptoms vary according to the type of the fracture

6 In the diagnosis the roentgen ray is indispensable
7 When the displacement of the fragments is

slight the prognosis is favorable. Bennett's fracture may result in great functional incapacity complicated in some cases by pseudarthrosis or a deforming callus which interferes with manual labor.

8 The treatment is non-operative or operative Operative treatment is indicated in severe fractures in which the displacement of the fragments cannot becorrected by the usual measures for immobilization

of the thumb Very often good results are obtained from immobilization of the thumb in a position of half abduction and slight flexion for from ten to twelve days by means of a plaster of Paris dressing or continuous traction followed by active more ments and centle massace kelloog SPEP M D

Musil V Dislocating Coxa Valga Clinical and Etiological Considerations (Lova valga luxans Klinisches und Aetiologisches) Lasop lek Ext 1928 Ivu 971 1015

Dislocating cort valga as described by klapp is a condition in which a valgus position of the neck of the femur is associated with sublication of the bead of the femur in a fill acteabulum It usually begins in childhood with pain in the hip and limping. Some times it is preceded by trauma. The climical signs are outwarf rotation of the tight without the discussion of the theoretical series with the series of the series

that the acetabulum is irregularly elongated upward the head of the femur articulates only with its median portion and the epiphyseal head is flattened into a wedge shape and displaced laterally

The author reports the case of a man forty too years of age who fell upon his left hip and thereafter expenenced difficulty in walking and pain in both hip joints which became so marked that ultimately he was unable to walk at all Examination revealed bilateral dislocating coxa valga with marked changes due to arthits deformans.

due to arthritis deformans
Musil assumes that the primary condution in the
locating coar wlag as a congenital flattening of the
secondary phenomenon analogous to the changes
following non operative reposition of the congenital
disolocated hip. He believes that dislocating coar
valga represents on the one hand the transition to
congenital dislocation of the hip and on the other
the transition to arthritis deforman and the other
the transition to arthritis deforman and the other
Perthes disease as occurring in the him (2).

Perthes disease as

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Gaglio V Terminal Forcipressure of the Arteries (Sulla forcipressura terminale delle arterie) Arch itel di chir 1028 XXII 165

Gaglio describes experiments in forcipressure of the arteries which show that the compressed vessels teact in the same way whether they are of the elastic or the muscular type A thrombus always forms within seventy two hours. The thrombus of the central end is more developed than that of the pe upheral end but this is the only difference between the two ends It is evident that the thrombus of the artenes is not the essential factor in either temporary or permanent hæmostasis as in one experiment a secondary hamorrhage occurred through a short laceration in the wall a few millimeters from the point of pressure at a time when long thrombi were present on both sides of the point of compression It is demonstrated also in these experiments as in those reported by Masnata that the part subjected to the direct pressure of the forceps does not cause

temporary or permanent hæmostasis In addition to the signs of regression such as desquamation of the endothelium and splitting of the internal limiting membrane and the elastic fibers there are signs of reparation which show that the final hamostasis is due to an active process of proliferation of the cells of the media and the sub endothehal layer which begins at the end of the first hour at the transition from the part on which the forceps is pressing to the arterial cul de sac and which within twenty four hours has extended some distance from the forceps. Within seventy two hours at the point where the new formation began the two walls of the artery are completely joined by newly formed connective tissue in which there are no normal arternal elements except elastic fibers The thrombus doubtless has some function in bring ing about hæmostasis but the author thinks it is only the auxiliary function of decreasing the blood pressure and thereby protecting the proliferative process of repair

In another series of experiments Gaglio tried to determine the end results of forcipressure on the arteries. He found that the organization of the thrombus and the cicatrization of the vessel are the same as after ligation. The organization of the thrombus is accomplished within from fifteen to twenty days by connective tissue proliferation the point of pressure the vessel is transformed into a solid cord The proliferation does not stop at the cul de sac but proceeds a little way beyond it The organized tissue which fills the lumen of the vessel becomes lined by newly formed endothelial cells which originate from the part of the en lothelium

that is left intact. The endothelium does not take any other part in the organization of the thrombus but possibly may help in the formation of new capillaries which according to the author's findings seem to come from the vasa vasorum New elastic fibers appear quite late

The practical conclusion to be drawn from these experiments is that forcipressure is a good method of AUDREY G MORGAN M D inducing hæmostasis

Railsback O C and Dock W Eroslon of the Ribs Due to Stenosis of the Isthmus (Coarctation) of the Aorta Radiology 1928 xii 58

The authors report a case of asymptomatic steno sis of the isthmus of the aorta in which with a com paratively slight superficial collateral circulation there were numerous erosions of the third to the ninth rib as evidence of dilated intercostal vessels The delay in transmission of the pulse to the femorals confirmed the existence of stenosis of the aorta

The erosion of the ribs was first recognized at the time the patient entered the hospital for treatment of a gastric disturbance. The diagnosis of coarcta tion of the aorta was suggested to the authors by chance finding of a description by Walshe in 1876 of erosion of the ribs in that condition. The pulse trans mission rate was therefore measured. The femoral pulse was found to arrive later than the radial pulse Under normal conditions the femoral pulse arrives from or to or seconds before the radial pulse

The authors believe that costal erosion is undoubt edly pathognomonic of coarctation of the aorta

JAMES B BROWN M D

Giertz k H and Crafoord C Thrombo Embolic Disease and Its Surgical Treatment ch 1 g Scand 1928 lxiv 121

The authors state that although thrombo embolic disease appears to be increasing the increase may be due only to more frequent diagnosis

The condition may be divided into the following types (1) obstructive pulmonary embolism (2) non obstructive pulmonary embolism with manifest thrombosis (3) non-obstructive pulmonary embo lism without manifest thrombosis and (a) manifest venous thrombosis without pulmonary emboli

True thrombo-embolic disease is a condition hav ing a definite relation to surgical procedures It occurs more often and in more malignant forms in surgical than in medical wards and there can be no doubt that of patients admitted to surgical wards those undergoing an operation develop thrombo em holic disease more frequently than those who are not operated upon

Of patients operated upon the disease occurs ex centionally in those subjected to operations on the head or trunk and rarely in those subjected to opera-

rions on the upper extremities or the chest
Patients with varices—thrombophlebitis in par
ticular—are very prone to develon thrombo-embo

lism As a rule neither the thrombus nor the embolus undergoes liquefaction Raising the foot of the bed and all other measures adopted to establish better circulation in the veins of

adopted to establish better circulation in the veins of the lower extremities and the pelvis seem to be with out importance

Thrombo embolic disease may be present without any direct clinical signs of either thrombosis or em bolism. As a rule however, there is a subfebrile tem perature and less often a certain impairment of the nulse.

The generally assumed tendency of the manifest thrombosis to be localized to the left common inacvein and its root is not clearly borne out by the authors cases Besides the local chinical signs of manifest thrombo

embolism the temperature and the condition of the pulse should be noted. A typical feature of the sease is the subfebrile and febrile arched curve with easier is the subfebrile and febrile arched curve with a subfebrile temperature without or with a slight postoperative effect on the pulse in cases which mailly should be without such changes is also an exceedingly suspectious sign and occurs almost regular as a premonition of venous thrombosis as well as pul monary embolish.

Combined with the typical changes in the temper ature and pulse the attack of stitch like pains or

hæmopty sis confirms the diagnosis of lung embolism even without manifest thrombosis

even without manifest thrombosis
Obstructive pulmonary embosism presents almost
without exception such a typical clinical picture that
provided the case is carefully observed no doubt
need be entertained as to the diagnosis. The condtion is usually preceded by a suspicious subfichile
temperature otherwise unexplainable very rarely
by slight attacks of lung embol and exceptionally
by slight attacks of lung embol and exceptionally
by slight attacks of lung embol and exceptionally
suddenly with typical symptoms the solution
which are an intense pallor disappearance of the
pulse and loss of consciousness Other common
symptoms are a sense of oppression air hunger and
a mild cyanosis with a typical version speaking
above the clastices the expression of the spassmode

attempts of contraction on the part of the right ven tricle. In 50 per cent of the authors cases of obstructive emboli the whole thrombus became detached. In the others, larger or smaller fragments of thrombi were left in the peripheral veins.

Death rarely occurs instantly in obstructive lung embolism. In most cases there is sufficient time after the onset of the first attack to allow a Trendenburg operation.

In conclusion the authors state that as we have as yet no knowledge of the cause of thrombo-embolic disease it is impossible to suggest a procedure for its prevention. When once it sets in nothing can be done to arrest its course. The one means of saving life is the Trendelenburg operation.

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Roth P Oxygen Therapy Anes & 4nal 1929 vill

Lack of a sufficient supply of oxygen causes pro gressive damage to the central nervous system heart and other organs The injurious effects of anoxemia may soon become preparable. Even though the tyanosis and respiratory and circulatory disturbances can be improved the condition may terminate fatally if it is treated too late

berrous tissue is the most easily damaged by in sufficient oxygen Cardiac muscle is more resistant Three types of anoxemia are described

t The anoxic type This is found in pulmonary tonditions interfering with respiratory exchange in the lungs such as pneumonia severe bronchitis asthma and emphysema

2 The stagnant type This is due to circulatory disturbances especially of cardiac origin

3 The anæmic type This is due to a lessened capacity of the blood to carry oxygen caused by a low hæmoglobin content a low red cell count or fixation of the hamoglobin by carbon monoxide

The symptoms of anoxemia vary according to the suddenness and completeness with which the supply of oxygen to the tissues is cut off. The sudden cutting off of oxygen causes loss of consciousness convulsions and death in a few minutes. A less sudden shutting off causes hyperpnæa a rapid and feeble pulse and impairment or loss of consciousness In these conditions artificial respiration is indicated When the deficiency of oxygen occurs gradually the breathing is often of the periodic type the mental faculties are impaired and the patient suffers from nausea vomiting headache and diarrhoza

Oxygen can be administered by means of a rubber balloon nasal tube mask bed tent or oxygen therapy chamber

In the induction of anæsthesia safety depends in large measure upon the prevention of anoxemia or asphyxia by the timely use of oxygen and carbon dioxide EARLY I GREEVE M D

Magliulo A The Effect of Periarterial Sympa thectomy on the Taking of Autoplastic Skin Grafts (La simpatectomia penartenosa sul man cato attecchimento degli innesti cutanei autoplas tici) Sperimentale 1928 lxxui 685

In experiments on rabbits burns of the skin were produced with the cautery and autoplastic skin grafts were applied from ten to thirty days later Penartenal sympathectoms was done before at the time of or after the grafting. The periarterial 5) mpathectomy was found to have a good effect on

the taking of the grafts. It exerted such an effect not only on the side on which it was performed but also on the opposite side. On the side on which it was performed the grafts took early and completely and showed regeneration of the superficial and deep cells of the enidermis the adnexa and the dermis Other conditions being equal, the grafts took soon est and most completely when the sympathectomy was done before or at the time of the grafting. The chief effect of the sympathectomy was improvement in the blood supply of the graft and its bed The taking of the graft depended also upon a good technique strict asensis and measures to prevent drying of the superficial layers of the cutis AUDREY G. MORGAN M D.

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Arrivat The Treatment of the Wound in Tetanus Cure of a Severe Case of Postoperative Tetanus by Amputation (A propo du traitement de la plaie tétanigène guérison par amputation d'un cas grave de tétanos post opératoire) Bull el mem Soc nat de chir 1028 hv 1071

Arrivat emphasizes the necessity of treating a wound that has given rise to tetanus Such treat ment is too often regarded as useless. The local application of antitoxin or even amputation is a valuable adjunct to the intravenous and intraspinous

treatment. The following illustrative case is cited A man twenty one years old was operated upon for a rapidly progressing tuberculous osteo-arthritis of the ankle joint. The operation consisted in resection of the astragalus curettage of the calcaneum and the articular surfaces of the tibia and fibula and excision of the fistulous tract. The postoperative course was normal up to the eighth day when trismus and rigidity of the neck developed. Within the next twenty four hours the typical facial ex pression of tetanus appeared together with spasms of the facial and cervical muscles. With the onset of these symptoms intraspinous and intravenous treat ment was instituted. As the spasms became more severe and more generalized they were combated with inhalations of chloroform During the ensuing eleven days the condition gradually became norse and a fatal issue seemed inevitable. At this point an amputation through the middle of the leg was per formed and antitoxin was injected into the nerves and applied to the wound which was left open The next five days saw progressive improvement. An unexplained rise of temperature however led the surgeon to discontinue the injections of serum. The temperature fell to normal and uneventful recovery resulted ALBERT F DE GROAT M D

Dogliotti A M: Blood Transfusion in the Treat ment of Surgical Infections (La trasfusione di sangue nel trattamento delle infeatoni chirurgiche) irch ital dichir 1928 xxii 200

Dogliotti reviews twenty-eight cases which show that in most surgical and medical infections transfusion of blood is a most effective method of treat ment because of its stimulating action on metab olism its beneficial effect on the secondary animus the blood pressure and the circulation and its activation of the organic defenses against the bacteria. The most important subjective effects noted after transfusion are a feeling of relief a decrease in the general restlessness improvement of the appetite and a general feeling of well being The objective signs are a lowering of the temperature curve (in some cases there is a temporary rise for the first few hours) improvement in the rate and strength of the pulse and of the respiration a de crease in the leucocyte count after about twenty four hours and a favorable reaction at the site of the infection within twenty four hours. Except in cases in which the infection is extremely virulent or the patient a general resistance is very greatly decreased the treatment brings about a progressive and permanent improvement with rapid resolution of the general and local findings The bactericidal and phagocytic power of the blood and to a less degree the opsonic power of the serum are increased. It is very probable that there is also improvement in the general activity of the cells and humors of the body

an index of which is furnished by the bactericidal power of the blood In connection with transfusion all the other

therapeutic measures which are indicated in the case should be employed. Transfusion is a purely auxiliary treatment and does not contra indicate the use of other therapeutic measures.

Only pure blood should be transfused It should be given rapidly and with a proper technique is a rule not more than from 200 to 300 c cm should be used In very serious cases the transfusion should be repeated every twelve twenty four or forty eight hours. In mild cases one transfusion is enough If in some cases there are reasons why the trans fusion cannot be repeated as much as 500 c cm may be given at once. In cases with very defective cir. culation and heart weakness or intense general intoxication it is advisable to withdraw an amount of blood equal to that which is to be transfused. In order to increase the efficacy of transfusion it is advisable or almost necessary to give large quanti ties of physiological salt solution subcutaneously or intravenously to increase the amount of circulating fluid stimulate the metabolism and furnish a vehicle for the toxic and sentic products in the organism Indirect transfusion is to be preferred as it gives the maximum independence between donor and recipient makes transfusion possible without surgical exposure of the vein and therefore with slight traumatism and allows repetition as often as ACDREY G MORGAN M D necessary

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Bass F and Jaroschka K Increasing Resistance Against Streptococcus Sepsis by Roentgen Ir radiation Experiments on Animals (Resistanz steigerung gegen Streptococcensep is durch Roent genstrahlen im Tierversuch) Strahlentherapie 1928 27VIII 568

In experiments on rabbits the authors attempted to determine whether roentgen irradiation will protect against streptococcus sepsis. To prove that the tass act not by an effect on the coccus but by activating the organic defense the rays were applied in the first experiments before the animals were in

Local irradiation was chosen in order most closely to approximate the conditions in man

The sepsis was produced by the intravenous in jection of from o 5 to 1 o c cm of a twenty four hour ascites bouillon culture of streptococci Normal animals succumbed to it within from one to four davs

The rays were centered on the middle third of the abdomen the rest of the body being covered The irradiation was given from twelve to fourteen hours before the infection

After the infection at equal intervals in the cases of both the irradiated and the control animals i c cm of blood was withdrawn from the jugular vein and with fluid agar was poured onto a plate for

counting of the micro organisms

In these experiments it appeared that the pre liminary irradiation considerably increased the resistance to the infection Control animals succumbed to the sepsis in from one to four days whereas animals that had received preliminary irradiation survived for from five to fourteen days and did not show symptoms until three days before death

Continuous counts of the micro organisms showed that in the irradiated animals the organisms dis appeared rapidly from the blood stream normal animals the initial decrease in the number of micro organisms was followed by a rapid and marked increase In the blood of the irradiated animals the micro organisms were distinctly fewer and some times disappeared entirely

The findings seemed to indicate that the increased

resistance obtained was due to increased activity on the part of the reticulo endothelial apparatus similar to that occurring in immune animals

Further investigations with Weil's plate tests of bactericidal power showed that the increase in re sistance coul i not be ascribed to an increase in the bactericidal power of the serum To determine whether roentgen irradiation acti

vates leucocytes in contact with the streptococci tradiation experiments with leucocytes in circ were undertaken No appreciable difference in the phago cytic strength of irradiated and unirradiated leuco cytes was noted

It was found possible also to increase the resist ance to infection of animals already infected. Ani mals infected by intravenous injection and irradi ated five hours after the infection lived five or six days longer than control animals. In the normal animal almost all of the micro organisms had passed out of the blood stream into the reticulo endothelial apparatus at the end of five hours and after multi plying there re entered the blood stream in vastly increased numbers In the immune animal the micro organisms were held fast and destroyed in the reticulo endothelium The action of irradiation ap plied at a time when the micro organisms have been taken up by the reticulo endothelium is a general

activation of the reticulo endothelial system Further experiments with the object of demon strating increased activity of the reticulo endothe lium with Adler and Reimann's function test gave

no results

In experiment which it was hoped would throw light on the action of the roentgen rays on the isolated circulating blood was also unsuccessful

To determine the distant action of the rays on non irradiated cells a rabbit was irradiated as before (over the abdomen) and fourteen hours later 2 c cm of a filtrate of a bouillon culture of streptococci were injected into the marrow of the tibia. Six hours later a streak preparation of the bone marrow was made and stained by the Giemsa Romanowsky method A control experiment was carried out with a non irradiated animal The result showed clearly more phagocytic activity of the histocytes and leu cocytes in the irradiated animal than in the non irradiated animal GRAGERT (G)

Overgaard A P Roentgenograms of the Sphenoid and Ethmoid Sinuses The Oblique Method 4rch Otolaryngol 1928 viit 663

Although roentgenograms of the paranasal sinuses taken in the frontal position Water's position and the lateral position yield a certain amount of infor mation relative to the sphenoid and ethmoid sinuses they are unsatisfactory because of the inevitable superposition Films made in the oblique position as described by Rhese in 1910 project these sinuses into the orbital cavity and permit separate visualiza tion of each of them A modification of this method used by the author is described in detail. The article contains roentgenograms of dry skulls with the sinuses filled with opaque material to show the location of the various sinuses. The value of stereo scopic exposures is emphasized

RADIUM

Regaud C Radium Therapy of Cancer at the Radium Institute of Paris Am J Roenigenol,

The author recognizes that radium and \ray
therapy cannot be divorced from surgery in the
treatment of cancer Honeser be discusses only
radium therapy chiefly because of the rapid prog
rasts that has been made in this type of treatment as
the result of a better understanding of cancer and the
action of irradiation upon it increased experience
in irradiation improvement in the technique and
the greater quantity of radium available

By cure the author means freedom from all evidence of disease for a reasonable length of time depending upon the location of the lesion for example three years in cancer of the skin and mouth five years in cancer of the cervix and ten years in

cancer of the breast

The statistics of the Radium Institute of Paris are based upon the total number of cases treated without reference to the technique employed but the cases are carefully classified from the anatomical standpoint. Complete statistics are available for only cancer of the cervix cancer of the skin and cancer of the mouth

The technique of radium therapy is of four types r Intracavity irradiation the introduction of radium into the natural cavities or channels of the body

2 Interstitial irradiation in which various radium preparations are introduced directly into

the neoplasm
3 Contact or surface irradiation in which the radium is placed in contact with or a very short

distance from the neoplasm
4 Irradiation at a distance from the neoplasm

and through the skin
Intracavity irradiation has been practically aban
doned except in cancer of the uterus. Its use in the
treatment of cancer of the prostate rectum caso
phagus laryan upper air passages and alumentary
tract has given poor results.

Of 678 cases of cancer of the cervix treated in the period from 1919 to 1926 610 were used for sta tistical purposes In this group a cure was obtained in 30 per cent. All were treated with radium or with radium and the \ ray The incidence of five year cure steadily increased from 8 per cent in 1919 to 26 per cent in 1922 Of the 171 patients in whom the lesion was in the early stages of were free from disease for from one to nine years A five year cure was obtained in 33 3 per cent Of 192 borderline cases 176 were used for statistics In this group the treatment resulted in freedom from the disease for from one to nine years in 37 5 per cent and a five year cure in 25 8 per cent Of the 407 advanced cases 373 were used for statistics. In this group freedom from disease for from one to nine years was obtained in 21 7 per cent and the incidence of five year cure was 17 7 per cent

By interstitial radium therapy combined with radium surgery is meant (1) the permanent intro duction into the tissues of minute radon-containing capillary tubes made of glass gold or platinum and (2) the temporary introduction of metallic needles a procedure called radium puncture. The author believes that in the future radium needles will be used in preference to radon seeds whenever surgery is necessary to gain access to the neoplasm Radium needles are small platinum tubes to mm in length with a wall thickness of from o 5 to 2 0 mm They are introduced by means of a trocar and stylet as practiced by Mallet Those used at the Radium Institute of Paris have a wall thickness of 0 5 mm and hold end to end I or more cells 15 mm in length They have a double eye accommodating a silk threads one of which is used for suturing the needle to the skin or mucous membrane and the other of which is used for its removal. The dosage given by these needles varies between o 5 and o 7 me destroyed per linear centimeter. These needles are easily manipulated inserted directly into the tissues without the aid of a trocar and readily spaced All betra rays are filtered out by the

Cancers of the tongue and floor of the mouth are treated by radium puncture. Those of the anterior half of the dorsum and the border of the tongue yield more readily than those of the posterior half of the tongue and the floor of the mouth In cases of the former type a complete cure has been obtained in 26 4 per cent and a cure of the primary lesion in 24 per cent The primary lesion was therefore cured in 51 per cent. In cases of the latter type a complete cure has been obtained in 22 per cent and a cure of the primary lesion in 33 7 per cent. Accordingly a complete cure has been obtained in 24 per cent of the total number of cases of cancer of the tongue and the floor of the mouth and a cure of the primary lesson in 44 per cent. Only 20 per cent of the cases were operable when treated In the treatment of malignant glands radical block resection of the area is followed by radium therapy at a distance from the

skin Radium puncture is not employed
Radium surgery to obtain easier access for the
insertion of radium is practiced in the treatment of
cancer of the nasal fosse and maxillary sunses. A
cure was obtained in 6 of 18 cases of these condi-

tions
Surface radium therapy has been supplainted by
the plating of numericus radium beanns tubes of
foundation of the plating of the plating

cure was obtained in o8 per cent, and in the total number of cases of operable cancer of the skin a cure was obtained in or ner cent. In 22 cases of doubtful operability without cancerous adenopathy a cure of the primary lesion was obtained in or per cent and in the total number of cases of doubtful opera bility a cure was obtained in 72 per cent In moper able cases a cure was obtained in 14 per cent

Cancers of medium depth such as those of the pharynx larynx cervical glands and inguinal glands are best treated by means of moulds holding the radium from 2 to 6 cm from the skin depending upon the depth of the area to be treated In the Radium Institute of Paris radium tubes having a filtration of 1 mm of platinum are fixed to the upper surface of the wax moulds which hold them in place Not infrequently special moulds containing several decigrams of radium protected laterally by 5 or 6 mm of lead and covering an area of from 100 to 200 sq cm are kept in place for from eight to ten days without causing much discomfort. When heavy moulds are used the applications are intermittent

In radium therapy at a distance special applica tors are used to hold from several hundred mills grams to 4 gm of radium from 10 to 15 cm from the skin The applicator used at the Radium Institute of Paris carries 4 gm of radium filtered by 1 mm of platinum at a focal skin distance of 10 cm and irradiates a surface of approximately 150 sq cm This apparatus is employed in the treatment of carcinoma of the cervix with extensive pelvic inva sion From 6 to 8 portals of entry are used and 100 per cent of the epidermicidal dose is delivered. The epidermicidal dose is defined as that amount of tradiation which is necessary and sufficient to destroy only the epidermis The 4 gm of radium in the applicator are distributed in 80 tubes each con taining 50 mgm. The tubes are arranged in 4 groups of 20 each at the 4 angles of a flat rectangular box made of brass which measures 135 by 110 mm In advanced cancer of the cervit from 50 to 60 hrs of irradiation with this applicator through from 6 to 8 portals of entry are delivered over a period of from two to three neeks

Careful comparisons of the biological effects of radium as compared with the \ ray have been made The author believes that from the biological standpoint radium is superior to the X ray From the point of view of biology he draws the following conclusions

1 Equal irradiation of the diseased area and filtration play an important part when homogeneous radiation is attempted

2 It is preferable to use selected cytolethal ra dum therapy that is penetrating irradiation purified by filtration Such irradiation is able to destroy radiosensitive cells without causing serious damage to normal structures

The time of treatment should be prolonged to a definite limit

4 If sublethal doses are applied at sufficient intervals over a long period of time normal tissues

are sensitized and cancer cells are immunized to seed atton

The radiosensitivity of the basal cell layer of cancer cells should be utilized when the dose is planned since this layer is more sensitive than the generations which will follow

The author states that much of the progress in the radiotherapy of cancer is attributable to recogni tion of the unequal radiosensitivity of different cancers the direct and indirect action of the rays and the superiority of the biological action of gamma rays over the \ ray

The majority of epitheliomata arising from stratified epithelium are cured by irradiation therapy provided (1) the cancer has not been immunized by previous irradiation treatments (2) deep infection is absent (3) the lesion is not so deep and extensive as to necessitate the irradiation of too great an amount of diseased tissue which favors general radio intoxication and (4) the anatomical location of the tumor does not necessitate a severe irradiation

reaction or permit visceral perforation Sterilization of lary need cancers is easy provided necrosis of the cartilaginous portion does not present a serious complication Cancer of the ecophagus is so deep that its treatment is difficult Epidermoid cancer easy of access is readily cured in the absence of local complications even when it is very extensive and frequently when it is inoperable Epidermoid carcinoma of the cervix yields well while adeno carcinoma of the rectum is resistant to selective

radiotherapy Biologically the problem of the direct and indirect effect of irradiation on cancer cells is complicated The author favors the theory of the direct action of the rays upon the cells While he admits that there may be additional indirect action from changes aris ing in the stroma he believes that the principal ac tion is direct. He calls attention to the fact that in the irradiation of normal tissue histological changes cannot be noted in vessels connective tissues and leucocytes preceding an effect upon the cells dermicidal dosage is a better criterion than erythema dosage as the former destroys the epidermal cells whereas the latter causes a functional phenomenon It is believed that normal and neoplastic tissue undergo fundamentally the same processes under The varying responses of different irradiation cancers are inherent in the different radiophysi ological properties of the neoplastic tissue

In the summary of his article the author draws

the following conclusions 1 Progress can be judged only from statistics

2 Cavity radium therapy cures with regularity only epidermoid cancer of the cervit which has not extended beyond the uterus

3 Homogeneous irradiation by interstitial meth ods is best obtained by radium puncture with the use of removable platinum needles

4 Surface radium therapy with the use of wax moulds gives excellent results in epithelioma of the

- 5 The radiosensitivity of cancers varies from the susceptible epidermoid structures of the cervix to the resistant adenocarcinoma of the rectum
- the resistant adenocarcinoma of the rectum

 6 The essential phenomenon in treatment with
- rradiation is a direct action on the cancer cell
 7 Gamma rays from radium are undoubtedly
- superior to the X ravs from the biological stand point

 The article contains numerous tables and illustra
- tions and a fairly extensive bibliography

 A JAMES LARKIN M D

MISCELLANEOUS

Rollier A Sun Treatment of Peritonitis (Die Son nenbehandlung der Pentoniti) Extrapulmonale Tuberk 1918 ii 129

Tuberculous peritonits is a secondary tuberculous manifestation. Hence its development indicates that the patient is immunity has been broken down and ill possible means must be used to and the body and the body are to be used to b

slowly and caution by and varies the treatment in the different forms of the condition. Most of his cases are of the chronic type. Some of them are of the exudative and some of the dry variet. Occa sonally especially after operation there are sup-

purative or facal fistule which are extremely un pleasant and deleterious to the patient. In addition to the sun treatment attention must be paid to the patient's nutrition. The diet should

consist mainly of milk farinaceous foods easily digested vegetables and well cooked fruits. The

digestion must be watched with great care. In the period from 1922 to 1923 Rollier treate1 innets, five cases of tuberculous peritoritis. A cure was obtained in 64 per cent and improvement in 27 per cent. In 5.2 per cent the condition remained unchanged and in 5.7 per cent death resulted from such conditions as cardiac insufficiency phlebits and cachers. Fufteen of the patients had in addition to peritoritis pulliformized by the patients of the peritoritis of the patients and in addition to peritoritis pulliformized by the patients and in addition to peritoritis pulliformized to be the peritoritis. The patients and the patients are the peritoritis of treatment was from ten to twelve months. The longest time was three years. Rollier considers win treatment the ideal therapy for tuberculous peritoritis.

MISCELLANEOUS

CLINICAL ENTITIES - GENERAL PHYSIO LOGICAL CONDITIONS

Waters C. A. Colston J. A. C. and Gay. L. N. Collordal Lead with Roentgen Therapy in Malignant Disease. J. Im. M. 188 19.9 voi. 14. Ulmann H. J. Colloidal Lead and Irradiation in Cancer. J. Im. M. 185 1929 voi. 18.

ULIMAN uses the colloidal lead phosphate in instancing cancer therapy while WATERS COLSTON and GAY employ colloidal lead prepared after the method of Bell of England and Wood of New Jork City. The advantage of the lead phosphate solution is that it is more stable easier to administer and less force.

WATERS COLSTON and GAY report the results of field and rontegren therapy in seven cases of made assay. Four of the patients are dead and three are doing. However although in all of the cases the condition, was very advanced improvement was sould following the treatment. In one case a lung metastasse disappeared. In the majority of the cases was as suppling of the red blood cells following between the conditions and a few lead lines were seen on the cases.

ULIVAN gives no statistic, but reports his general impressions from the treatment of lifts cases with collection of the cases were advanced that he regards a sun train to attempt to reliable the method by his results. He noted hower that patients receiving this treatment required less morphine than untreated patients in the same continuo. In many cross shrinkage liquidaction or disappearance of the tumors was seen either during he or at autops. Crankers H Heacot. M D

Soiland A Costolow W E and Meland O N
Colloidal Lead Combined with \ Rays and
Radium in Treatment of Cancer J 4 W
Knor 1 20 S KH 104
Knor 1 20 S KH 104

Knox L C Lead Therapy J im M is 1929

Solland Costolous and Meland report a series of thirth one cause of inoperable carcinoma which were treated by the intravenous administration of colosidal lead point and the series of from 100 to 100 men and the series of from 100 to 100 men and the series of from 100 to 100 men and the series of from 100 to 100 men and the series of from 100 to 100 men and the series of from 100 to 100 men and the series of the series

types of malignant tumors who were treated with

colloidal lead with or without \ ray irradiation four are at present wholly free from physical signs of their disease but the time which has elapsed since the disappearance of the tumors is too short to per mit the assumption that a cure has been obtained Several other patients were benefited temporarily Thirty four patients died as the result of the progress of the neoplasm or from an extraneous lesion. In a series of sixty other cases neither death nor serious complications resulted from the use of lead twenty cases the patient was so cachectic or the neo plasm so large that it was necessary to stop the use of lead before giving the amount which might have been expected to cause improvement. No selection of patients was made except that those who were moribund and those with advanced renal lesions were excluded. The combination of lead with the ray was often found more effective than lead or the \ ray alone

The results in the cases reviewed confirm in a general way Bell's finding that in a few instances of inoperable and advanced lesions arrest of the disease may be obtained by the combined administration of lead and the X rays John H Garlook M D

SURGICAL PATHOLOGY AND DIAGNOSIS

Howes E L Sooy J W and Harvey S C The Healing of Wounds J Am M Ass 1929 xcu

The fundamental process of the healing of woundcalled cicattraction or fibross is only qualitatively familiar as methods of measurement and accurate data applicable to this problem are either not available or have not been employed. The empire knowledge while perhaps audicient for most pur knowledge while perhaps audicient for most pur scientific if data could be obtained which could be subjected to mathematical analysis.

Attempts in a limited way have been made to obtain such data. Carrel in rote found that there is a quescent period of from one to fix edays between the infliction of a surface wound and the beginning of the diminuation in its area that the diminuation is caused by contraction of the granular bed and its soon overlapped by the decrease in size as a result of the ingrowth of epithelium from the edges of the wound and that the larger the area the more rapid the repair. A reverse relationship exists as regards the epidermization that is the smaller the wound the more rapid the ingrowth of epithelium.

Spain and Loeb in 1916 arrived at the same conclusion without knowledge of Carrel's work Carrel and Hartmann then constructed graphs of the rate of the reparative process with the same general conclusion. Du Nou's working with Carrel devel oped a mathematical equation establishing a normal curve for the healing of a surface wound. Having established a curve representing the normal expectancy of healing they studied the latent or quiescent period which in the dog lasts from five to seven days and then ends abruptly. The contraction period starts with a maximum velocity. As long as the wound has complete protection the latent period is prolonged whereas the introduction of irntants serves to increase it even below the normal time Carrel came to the conclusion that the contraction phase is initiated by an external factor Clark using the curves and methods of Carrel and Du Nouy found that a protein diet shortens the latent period and a fat thet lengthers it, and that the rates of contraction and epidermization are unaffected by diet Ebeling using the same equation found that in the alligator a rise of 10 degrees C increases the rate of healing of wounds twofold

The authors simplified the problem by eliminating the factor of epidermization. They produced incised wounds in the skin fascia stomach and intestine of dogs and sutured them immediately. At certain time intervals the tissue containing the wound was removed the strength of the wound was determined and its tensile strength was tested on a Scott

thread testing machine

The experiment on skin the sutures being removed before the test showed that the tensile strength expressed in grams per centimeter width of the wound remained near zero for four days then rapidly increased to 800 gm and then gradually rose to the maximum strength of the wound in the skin 2 600 gm on about the fourteenth day

In the experiment on fascia which was sutured with No co twenty day chromic catgut and No 3 twenty day chromic catgut the composite graph showed a quiescent period up to the fith day during which the strength was that of the holding power of the sutures. The point at which the sutures tore out at the points of insertion was less than 700 gm per centimeter of incision. The normal strength of the fascia wound 2 400 gm was reached

at about the fourteenth day

For the wound in the muscle the sartonus of the dog was used because of its minimal and constant thickness The wound edges were approximated with interrupted No oco plain catgut sutures The quiescent period was about six days and the tearing strength of the suture very low. The normal strength of the muscle wound 1 800 gm per centi meter of measion was reached on about the twelfth dav

In one group of experiments on the stomach a simple incision through the anterior stomach wall

was closed with three layers of No 000 plain catgut It is known that catgut of this size disappears in forty eight hours Consequently the strength dunne the autescent period of three days was found to be The normal strength of the stomach wall wound 1 800 gm per centimeter of incision was reached on the twelith day. In another group of experiments the incision was closed with to o twenty day chromic catgut During the quiescent period of from four to six days the strength was represented by the holding power of the sutures 700 gm per centimeter of incision at which point they tore out of the tissues The return to normal was neither so complete nor so rapid as in the pre ceding experiment as the average normal strength of the stomach wall wound was only 1 200 gm per centimeter of incision on the twelfth day suggesting that the presence of large amounts of suture material

interferes with healing of the wound The authors state that the lag period has a practical significance as it is during this period of from four to six days that the strength of the wound must be artificially re inforced by the use of sutures The period of fibroplasia is equally important for it is during this period that the strength of the wound is developed up to a maximum point at which it remains for some time. The rapid ascent of the curve from the sixth to the tenth day as expressed in tensile strength has great practical significance as regards the type of suture used and the stress

placed on the wound The authors summarize the results of their experi

ments as follows I It has been found possible to determine the rate of healing of the simple incised wound in the

skin fascia muscles and stomach 2 The tensile strength of a healing wound is a

function of the fibroplastic process

3 A curve expressing this shows a lag period of from four to six days and then a phase of fibroplasia rising rapidly at first and then more slowly as it

approaches the maximal strength of the wound 4 The latter point is attained in from ten to

fourteen days

In the discussion of this report BARTLETT cited the work of klumpski on the intestine after end toend anastomosis which showed that the normal pressure the intestine will stand drops about half for about two days after the anastomosis and con tinues to drop until the seventh day when it gradually rises to normal on about the filteenth day Klumpski attributed the lack of holding power of the sutures to weakness of the granulation tissue that was deposited about the suture material

J EDWIN KINEPATRICE, VI D

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -- THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS ISSUE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

SURGERY OF THE HEAD AND NECK

Purulent accumulations in the temporal region P M Atsernaz Bol Soc de med e cirure de S Paulo 1028

Cavernous hæmangioma in the adult G B New Surg Chn N Am 1929 1x 78

Congenital malformations of the face | I ESTELLA and B DE CASTRO Chin y lab 1928 xiv 364

An attempt to treat inferior retrognathism L Du FOURMENTAL and M DARCISSAC Bull et m m Soc d

chirurgiens de Par 1028 xt 750 Adamantinoma of the lower jaw treated with surgical diathermy (*) B \rw Surg Clin N Am 1929 it 80 Symmetrical foromata of the jaws H Klose and G

GROVEALD Arch I klin Chir 1928 ch 469 Hemangioma of the submental region F W RANKIN and C I CHUMLET Surg Clin N Am 1929 13 95
Calculus of a submaxillary gland Moreau J de chir

et Ann Soe belge de chr. 1928 p. 199

Tumor in the right submanilary region (noncaseous tuberculosis) F. W. RANKIN and C. L. CRUMLEY Surg

Clin N 1m 1929 1v 102 Fibroma of the night submanillary gland C A Castro Semana m d 1928 xxxv 1298

Lve

- The three Ts in ophthalmology G H RELL Med J 4 Rec 1929 CXXI 26 Industrial eye injuries E P North and V L Joves
- J M soun State M Ass 1929 XXVI 51 Frame fitting ly photography L L MADDOX Brit 1 Ophth 1929 in 60
- Umlateral hypert lorsm P C LIGHTWO ID and W P H Surgoon I me Roy Soc Med Lond 1929 xm
- A study of the factors oncerned in depth perception I Loy Im J Ophth 1920 tt 109 A histological study on the action of short waved I ght upon the eye ith a note on inclusion hodes W. S. Duke lung and I M. Dukt Lider Brit J. Ophth I rolonged monocula or lusion in the d agnosis of hetero-

phona F M FALR PT Cal forms & West Med 1020 XXX 100 FI p sel rotoms the re ult of an operation four years

previous Sir I (RUS) I roc Roy Soc. Med Lond 1929 TUI 413 Caterpillar has ophth lmitis (ophthalm a nodosa)

R i M se Brit Johnth 1929 xin 57
thout mm n ty in phthalmology like biological
tratment of cy d e cs in clation to no e and throat
infections k lettrant C Breeks B ill et mem Soc

d ch rurgiens de Par 928 xx 717

The treatment of pulsating exophthalmos KOENIG Zentralbi f Chir 1928 p 2713 Pseudo-laucoma A MacRae Brit J Ophth 1929

xiu 61

Glaucoma C & Kercheval Internat J Med & Surg 1020 xlu 76 Optic atrophy following alcohol injections F C

Cornes Am J Ophth 1939 x11 120
A case of malignant lymphoma M Goldenburg Am J Ophth 1929 x11 116

Grafts after exenteration of the contents of the orbit C H Backey South M J 1929 xan 169 Extensive crystalline deposits in the cornea

GOLLDEN Proc Roy Soc Med Lond 1929 THE 444 Bright blue changes in the deep lavers of the cornea (sht lamp) Proc Roy Soc Med Lond 1929 XXII 444 Interstitial keratitis with unusually marked chorio retinitis pathologico-anatomical examination of a case

W P Ling Arch Ophth 1929 1 207
Conjunctivitis A N LEMONE J Missouri State M Ass 1020 XXVI 55

The regeneration of the aqueous humor P C KRON FEED Arch Ophth 1920 1 231
Subconjunctival injections of atropin and adrenalin in indocyclitis A L Brown Am J Ophth 1929 xii

Cyst of the useal layer of the ins at the pupillary margin in a case of posterior synechia with secondary glaucoma W H WILMER Arch Ophth 1929 1 162

Persistent pupillary membrane and congenital ectopia lentis A R CREBRIN Am J Ophth 1929 2m 87 The nutrition of the lens and of the vitreous H SMITH

Arch Ophth 1929 1 150 Copper cataract C B Gouldes Proc Roy Soc. Med Lond 1929 XXII 445

Bilsteral cataract following thyroidectomy J F REEDER Am J Ophth 1929 xii 122
Instruments for cataract operations D B KIRRY

Am J Ophth 1929 211 120 The conjunctival bridge in rataract operations C T EBER Am J Ophth 1929 XII 106

My conjunctival incision for the extraction of the lens and its surgical anatomy R G I RASAD Antiseptic 1020 XXVI 90

Intracapsular extraction without iridectomy H McI Morrov Am J Ophth 1929 xii 90

A case of essiving thoroidus with atrophy of the ocular globe C CARA and P TYBERFC Bol 50c de med cenurg de S faulo 1928 x 135

The outer world the retural image and visual function

G BERITENS Clin y lab 1928 11v 353 A case of right homonymous hemianopia \ TARID

Brit. J Ophth 1929 xiii 67 Retinal hemorrhages W. H. McMulley, Proc. Poy. Soc Med Lond 1929 XXII 443

571

oped a mathematical equation establishing a normal curve for the healing of a surface wound Having established a curve representing the normal ex pectancy of healing they studied the latent or quiescent period which in the dog lasts from five to seven days and then ends abruptly The contraction period starts with a maximum velocity. As long as the wound has complete protection the latent period is prolonged whereas the introduction of irritants serves to increase it even below the normal time Carrel came to the conclusion that the contraction phase is initiated by an external factor Clark using the curves and methods of Carrel and Du Nouv found that a protein diet shortens the latent period and a fat diet lengthens it and that the rates of contraction and epidermization are unaffected by diet Ebeling using the same equation found that in the alligator a rise of to degrees C increases the rate of healing of wounds twofold

The authors simplified the problem by eliminating the factor of epidermization They produced incised wounds in the skin fascia stomach and intestine of dogs and sutured them immediately. At certain time intervals the tissue containing the wound was removed the strength of the wound was determined. and its tensile strength was tested on a Scott

thread testing machine

The experiment on skin the sutures being removed before the test showed that the tensile strength, expressed in grams per centimeter width of the wound remained near zero for four days then rapidly increased to 800 gm and then gradually rose to the maximum strength of the wound in the skin 2 600 gm on about the fourteenth day

In the experiment on fascia which was sutured with No oo twenty day chromic catgut and No 3 twenty day chromic catgut the composite graph showed a quiescent period up to the fifth day during which the strength was that of the holding power of the sutures The point at which the sutures tore out at the points of insertion was less than ,oo gm per centimeter of incision. The normal strength of the fascia wound 2 400 gm was reached

at about the fourteenth day

For the wound in the muscle the sartorius of the dog was used because of its minimal and constant thickness. The wound edges were approximated with interrupted No ooo plain catgut sutures The quiescent period was about six days and the tearing strength of the suture very low The normal strength of the muscle wound 1 800 gm per centi meter of incision was reached on about the twelfth

In one group of experiments on the stomach a simple incision through the anterior stomach wall

was closed with three layers of No 000 plain catgut It is known that catgut of this size disappears in forty eight hours Consequently the strength during the quiescent period of three days was found to be The normal strength of the stomach wall wound 1 800 gm per centimeter of incision was reached on the twelfth day. In another group of experiments the incision was closed with No o twenty day chromic catgut During the quiescent period of from four to six days the strength was represented by the holding power of the sutures 700 gm per centimeter of incision at which point they tore out of the tissues The return to normal was neither so complete nor so rapid as in the pre ceding experiment as the average normal strength of the stomach wall wound was only 1 200 gm per centimeter of incision on the twelfth day suggesting that the presence of large amounts of suture material

interferes with healing of the wound The authors state that the lag period has a practical significance as it is during this period of from four to six days that the strength of the wound must be artificially re inforced by the use of sutures The period of fibroplasia is equally important for it is during this period that the strength of the wound is developed up to a maximum point at which it remains for some time. The rapid ascent of the curve from the sixth to the tenth day as expressed in tensile strength has great practical significance as regards the type of suture used and the stress placed on the wound

The authors summarize the results of their experi

ments as follows I It has been found possible to determine the

rate of healing of the simple incised wound in the skin fascia muscles and stomach 2 The tensile strength of a healing wound is a

function of the fibroplastic process 3 A curve expressing this shows a lag period of from lour to six days and then a phase of fibroplasia

rising rapidly at first and then more slowly as it approaches the maximal strength of the wound 4 The latter point is attained in from ten to

fourteen days. In the discussion of this report BARTLETT cited

the work of Klumpski on the intestine after end toend anastomosis which showed that the normal pressure the intestine will stand drops about half for about two days after the anastomosis and con tinues to drop until the seventh day when it gradually rises to normal on about the fifteenth day Klumpski attributed the lack of holding power of the sutures to weakness of the granulation tissue that was deposited about the suture material

J EDWIN KIRKPATRICK M D

Adenocarcinoma (mixed tumor) of the left submaxiflary gland F W RANKIN and C L CHUMLEY Surg Clin N Am 1929 IT 104

A dermoid cyst of the floor of the mouth report of a case F A Figi and S W HARRINGTON Surg Clin N Am. 1929 1x 89

Cautery in tuberculosis of the tongue and larvay G H B TERRY South M J 1929 XXII 147 Radium therapy of cancer of the buccal cavity Cape Lancet 1929 ccxvs 8 [514]

Pharynx

Agranulocytic angina with report of a case 4 L Tynes Virginia M Month 1929 lv ,65 The etiology and the etiological treatment of Plaut

Vincent angina P MANGABEIRA ALBERNAZ Laryn goscope 1929 strix I [514] Pharyngo-resophageal diverticulum S W HARRING

10v Surg Clin N Am 1929 1v 123 Hyperplastic laryngitis and pharyngitis mysordema? SIR DUNDAS-GRANT Proc Roy Soc Med Lond 1929

XXII 526 Operations for malignant disease of the pharynx W.

TROTTER Brit J Surg 1929 XVI 485 immediate enucleation for the treatment of quinsy

R. A R WALLACE But M J 1929 1 296 The tonsils J T CREBBIN To State Med J 1929

Tonsil puncture a new method of investigation J RAM

SAI and C M PEARCE Brit M J 1929 1 543 Tonsillectomy modified and original technique H V

DUTROW Ohio State M J 1929 XXV 112
Section tonsillectomy J B H WARING Internat
J Med & Surg 1929 Xin 80

Tonsillectomy pre operative considerations and results

II. DONNELL Texas State J M 1929 XXIV 705 Some of the causes of failures in tonsillectomies and admodectomies R H T Mann Texas State J M 1929 XXIV 714

Neck

Fracture of the thyroid cartilage Report of one case H E CONWELL J Bone & Joint Surg 1929 x1 123 The blood pressure in disturbances of the thyroid gland JF DeCourcy J kansas M Soc 1929 Etx 44

Hypothyroidism of adults A B CRADDOCK M J 1929 XXII 141 The clinical syndromes associated with hypofunction of the thyroid gland B A COHOE Pennsylvania M J

1929 XXXII, 328 A case of surgical endocrinotherapy and thyroid homo graft for myxordema and cretinism considerable improve

ment Darrigues and Madureira Bull et mem Soc d thingrees de Par 1928 az 119 Reaction of the thyroid gland to infections in other parts

of the body W H CoLE and N A WOMACK J Am VI Ass 1929 XCH 453

Some observations on psychoses associated with thyroid disease C W Srove Ohio State M J 1929 xxv 101 The atypical in thyroid work J k McGregor Am J Surg 1929 vi 217

Studies on goster N Zealand M J 1920 xxvm 43 In which types of gotter is todane indicated? J

A prelumnary report on the results of gotter prophy lavis WAGNER JAUREGO Wien klin Wehnschr 1928 zh [514] The goster problem after twelve years expenence J HILL Texas State J M 1929 xxiv 697

A case of intratracheal goiter LACHER and DENIS Arch internat de laryngol 1928 xxxiv 1974 Intrathoracic goiter MOREAU J de chir et Ann Soc belge de chit 1928 p 199

Goster in children H D Attoney Am J Surg 1929 A contribution to the study of the basal metabolism in

gotter at puberty S M ELDH Acta med Scand 1028 Íτιτ 280 [515] Three cases of gotter Lemoine J de chir et Ann Soc

belge de chir 1928 p 204 A review of hyperthyroidism in primary goiters H L BAKER Illinois M J 1929 lv 111

Studies of hyperthyroidism \ Observations upon the nosterior lymph hearts and lymph vessels in living from larvæ under treatment with thyroid extract C C Speipel

Anat Record 1020 vli 350 Thyrotoxicosis-its symptoms and the importance of its

early recognition A G LAYNE N Orleans M & S I 1020 LXXXI 564 Thyrotoxicosis from the internist's standpoint

MILLER Am J M Sc 1929 cltxvn 98 An outline o the diagnosis and treatment of toxic goster

L. W. ROBE, Nebra ka State M. J. 1920 xiv 78

Basedow's di en e and the Hohe Tatra sanatorium M Gtorn Ztschr f B ederkde 1928 in 146

Basedow's disease a liver condition I PROCHÁZKA Časop lék česk 1928 p 1401 Radium treatment of oxic exophthalmic goiter O W

ALLISON Ill nois M J 1929 h 133 Exophthalmic goster and the indications for the stage

operation | DE | PEMBERTON Arch Surg 1929 XVIII Pre operative treatment of exophthalmic goiter S F

Harves Minnesota Med 1929 vii o Immediate pre operative treatment of exophthalmic gotter J F Mason Am J burg 1929 vi 213

Six cases of exophthalmic goiter successfully treated by subtotal thyroidectomy Weltri and DUVAL Bull et mem Soc nat dechr 1928 liv 1127 A case of echinococcu cyst of the thyroid A Borro

Micca Policin Rome 1928 xxxv sez chir 500 Chondroma of the thyroid cartilage D F A NEILSON I Laryngoi & Otol 1020 xliv 123

Radicalism in surgery of benign adenoma of the thyroid I W DREYER Illinois M J 1020 lv 110 Skeletal metastasis of a colloidal struma G FALDINI Chir d organi di movimento 1928 xiii 80

The mortality of operations upon the thyroid gland J L DeCourcy Ann Surg 1929 Exxiv 203
Factors determining the end results of thyroidectomy for

hyperthyroidism G W CRILE South M I 1020 TUI

The value of oxygen treatment after thyroidectomy S F HAINES and W M BOOTHEY Am J Surg 1929

Bilateral cataract following thyroidectomy

REEDER Am J Ophth 1929 XII 122 Laryngorhinology and general medicine M HAJEK Laryngoscope 1929 EXXIV 75

Fore gn body in the glottis M D Sitte J Am M Ass 1929 xcu 647 A case of su iden death due to the occlusion of the larynx

by two ascan les umbricoides M B D Divey Edinburgh M J 1929 REEVI SEE Tubercu osis of the larynx with an outgrowth from the

ventricle Six J Dendas-Grant Proc. Roy Soc Med Lond 1929 Eth 610 I's heal fistu ization in laryngology Rosevinal, Arch

inte nat de laryngol. 1928 xxxiv 1066

An improved retinoscope G H Cross Am I Ophth 1929 11 122 Modifications of the eye ground and blood pressure in the

arteries of the retina during the increase of intracranial pressure cedema of the papilla and optic atrophy R PETIT and C BERENS Bull et mem Soc d chirutmens de Par 1928 xx 770 The preretinal artery an anatomical study I Goldstein and D WEXLER Arch Ophth 1929 1 324

Retinal degenerat on in the macular region without cere

bral symptoms A KNAPP Arch Ophth 1020 1 311 A case of unusual pigmentary change at the macula M WHITING Proc Roy Soc Med Lond 1929 XXII 445 Disk like degeneration of the macula with microscopic report of a tumor like mass in the macular region T B HOLLOWAY and T H. VERHOEFF Arch Ophth 1929 1

White crescent round disk Coat's disease? L Parov. and F A WILLIAMSON NOBLE Proc Roy Soc Med Lond 1929 xxn 445

Ear

Progress in otolaryngology A summary of the biblio graphic material available in the field of otolaryngology from October 1027 to October 1028 the anatomy and physiology of the ear P E MELTZER Arch Otolaryngol

The estimation of hearing capacity S Hastinus J

Laryngol & Otol, 1929 xhy 73 A clas ification of deafness based on the effect of deafness

on efficiency in life J K Love J I aryneol, & Otol 1929 xhv 78 Hearing tests T A CLARKE | Laryngol & Otol

1020 xhy 83 The use of standardized tuning forks and hearing tests in the military service R SONNENSCREIN and M A

REASONER Mil. Surgeon 1929 law 169 Simulated unilateral deafness G W MACKENZIE Laryngoscope 1020 XXXIX 103

The incidence of masal sinusiti with diseases of the ear 100 cases in children E P Fowler Arch Otolaryngol 1020 IX 150

Streptococcus mucosus otitis I R VAILE Canadian M Ass J 1929 EX 166 A case of Gradenigo's syndrome D B Surron But **V**[] 1929 1 346

Gradenigo s syndrome S D GREENFIELD Arch Otolaryngol 1020 ix 17t The treatment of acute infections of the middle ear and

the prevention of mastoiditis A I Schwartz Arch Otolaryngol 1929 1x 185 The bony labyrinth of the newborn infant and of the

adult a comparative study G E TREMBLE Arch Otolaryngol, 1020 1x 175 Syndrome-complex Mensère D W DRURY New Eng

land J Med 1929 cc 173 [513] Four ca.es of streptococcus mucosus capsulatus mas [513]

toiditis A. M ALDEN Laryngoscope 1929 XXXX 109 Suggested changes in the accepted view of mastoiditis and its treatment surgically W J CRANSTON and F H Voss N York State J M 1929 xxx 148 The modified radical operation on the mastoid C II

SMITH. Arch Otolaryngol, 1929 1x 135

Nose and Sinuses

Congenital and hereditary nasal deformity L G BROWN Proc Roy Soc Med Lond 1929 EXII 532 Deformities of the nasal septum and sequelæ F D Boyn Texas State J M 1929 xxiv 709

A report of recent results in thinoplasty L Coney Virginia M. Month. 1929 lv 781 Cells in the vomer D Macrania Laryngo cope

1929 XXXIX 135 Considerations of rhinophyma Brasiliso ne Lius Jr Bol. Soc, de med e cirurg de S Paulo 1928, ti 247

Brief considerations upon the etiology of ezena. I C CORREA Semana méd 1928 EXXV 1245

Atrophic rhinitis D SACKIN J Ophth Otol & Laryn gol 1029 XXXIII 40 Tuberculous ulcer of the septum nass with infection of

sinuses of the affected side M WARDE Proc Roy Soc Med Lond 1929 XXII 531 Malignant tumors of the nasopharynx, F K. HANSEL

Arch Otolaryngol 1929 1x 12 Ultra solet rays in disease of the nose and throat A Emilow But I J 1929 1 289

The use of ultraviolet rays in di eases of the nose and

throat A Eminow Proc Roy Soc Med Lond 1929 TTI 523 Reactions from intranasal surgery A R. HOLLENDER

and M H COTTLE Illinois M J 1920 lv 100
A comparison of the outlines of the frontal sinus in r w as shoun by transillumination and the roentgen rays

G FETTEROLF and E E SPRENKEL Arch Otolaryag ! 1929 IT 181 The relation of the teeth to the sinus s J J Gilbert

Rhode I land M J 1929 xu 27 Observations on the nasal sinus problem E S Coverit J Missouri State M Ass 1929 XXVI 61

Nasal sinus symptoms actual and contributory causes and symptoms W BLEDSOE Kentucky M J 19 9

Intranasal treatment for chronic disease of the nasal accessory sinuses C McDougatt South M J 1929 Osteoma of the nasal accessory sinuses D Sickin

J Ophth Otol & Laryngol 1929 XXXII 47 A comparative study of chronic sinusits with end results following intrana al operations R G REAVES Arch. Otolaryngol 1929 1x 23 [514] Chronic frontal sinusiti R A Duncan Texas State

M 1020 XXIV /02 Debiscence of the posterior wall of the sphenoid inus Report of a case L k ELFMAN Laryngoscope 1929

XXXIX 131 The study of antrum disea e with the aid of the injection of rodized oil G D Wolf N York State J M 1929 TUX 193

Mouth

Vancent's infection of the mouth and threat F M ROUTH | South Carolina M Ass 1929 XX1 322 A new obturator for cleft palate A SCHALTT Ztschr

f Stomatol 1028 trvs 898 Dental p osthes 5 L ARAGO Med Ibera 1028 xx

Some notes on the origin and prevention of garginitis

G B PRITCHARD Proc Roy Soc Med Lond 1929 XXII 535 Reflex salivary secretion following distint on of the stomath K. Hisada Mitt d med Ges zu Osaka, 1928

A cerv cal salivary gland J Browner Am J Surg

1020 VI 233

Salavary calcula in the ra ht submaxillary gland F W RANKIN and C L CHEMLEY Surg Clin N Am., 1929

Iodid s as an aid to the d agnosis of mixed sale ary gland tumors R I Hiller J Am M Ass 1929 Ici 64

Paralysis of the serratus anterior muscle by trauma of the long thoracic nerve. L. DUNN. Minnesota Med. 1020 xiii

The alcoholized nerve graft P W Sweet Ann Surg 1020 EXXIT 101

Sympathetic Nerves

Raynaud's disease of the upper extremities successful treatment by resection of the sympathetic cervicothoracic and second thoracic ganglia and the intervening trunk A. W. Anson and G. E. BROWN J. Am. M. Ass. 1020

ICU 444 Retropentoneal ganglionic neuroma D F Cappell 1 [520] Path & Bacteriol 1929 Texts 43 [520]
Histological study of the vessel walls and of the innervation following desympathetization of Leriche O Niko LATEFF Arch f klin Chir 1928 cli 744

Sympathectomy in the treatment of angina pectoris Companion of results with those from paravertebral alcohol injection E P RICHARDSON and P D WHITE Am I M Sc 1929 ckxvii 161 An investigation of the late results of penarterial sym

575

pathectomy W LEHMANN Bestr z klin Chir 1028 crlm 220

Miscellaneous

A meningeal cyst and complete incontinence Lemoine I de chir et Ann Soc belge de chir 1928 p 198 A mahmant thymoma with a peculiar metastasis into the central nervous system in a child three and one half year old. Also a contribution on the clinical picture and path logical anatomy of tumor metastasis by way of the cerebrospinal fluid Γ Danisch and E Nedelmann Arch f path Anat 1928 cclavin 492

The relief of pain by nerve section T C GRANT 15201 Am M Ass. 1929 Rell 116

Neuroramisectomy for tabetic gastric crises I BRUGGE Vlaamsche geneesk Tijdschr 1928 p 830

SURGERY OF THE CHEST

Chest Wall and Breast

The technique of rib resection and osteomyelitis of the nb ends E D CHURCHILL J Am M Ass 1929

A study upon the cestrual rhythm of the breast S SCICLIONE Riv ital di ginec 1928 viii 200 Two cases of massive bilateral hypertrophy of the breast

BROWER J de chir et Ann Soc belge de chir 1928 p A contribution to the subject of experimental tuberculous

mastitis P Rosetti Rassegna internaz di clin e terap 1028 IX 821 The interpretation of breast histology Str G I

CHEATLE Lancet 1929 CCXVI 37 The bleeding breast G GROWALD Beitr z klin Chir 1928 cxliv 336

A case of bleeding from the breast D N SINHA and R K MUKHERJEE Indian M Gaz 1920 km 149 The so-called lymphophagic granuloma in a male breast

G Giordano Ann ital di chir 1928 vii 1279 Cancer of the breast in man P DE LA VIILFON Bull et mem Soc d chirurgiens de Par 1928 xx 744
Bilateral carcinoma of the breast S W HARR SCION

Surg Clin V Am 1929 14 129 Bilateral primary carcinoma of the breast with an internal of twenty five years between occurrences S W

Inoperable carcinoma of the breast treated with radium R WARD But M J 1929 1 242 Removal of a malignant tumor of the breast by means of

dathermy knife I goust and Vignal Bull et mem Soc nat. de chir 1928 liv 1211 Meta tases in mammary carcinoma F T Ingram

Brit M J 1929 1 201 Total mammectomy and free autograft of the napple

and areola bilateral esthetic mammectomy Darrigues Bull et mem Soc d chirurgiens de Par 1928 vt 739

Trachea Lungs and Pleura The principles of the method of examination of the

re piratory apparatus E SERGENT Rev Asoc med gent 1928 al 827

leroral endoscopy V I Negus Lancet 1919 ccavi 60

Bronchoscopy-its relation to the other departments of the hospital E king Laryngoscope 1929 xxxix 91 Foreign bodies in the air passages and the resophagus their extraction by endoscopy A ZAMBRINI Rev med

Lat Am 1928 viv 3222 Simplified methods of extraction of foreign bodies from

the digestive and respiratory passages BELINOFF Arch internat de laryngol 1028 xxxiv 1029 A new case of tracheal cannula extracted from the night bronchus BRUZAUD GRILLE Arch internat de laryn

gol 1028 XXXIV 1080 Dental pro thesis extracted by superior tracheotomy from the right bronchus after remaining in situ for ten days recovery G FERRERI Policlin Rome 1028

xxxv sez prat 10% Foreign body in the left bronchus for eight months ex traction persistence of an abundant purulent expecto ration suggesting bronchial dilatation cure following reduction of intake of liquids DURIF Arch internat de

larymeol 1028 xxxiv 1082 Thymic tracheostenosis intracapsular resection

covery M OTTON DE REZENDE and W SENG Bol Soc de med e cirurg de S Paulo 1928 xi 248 Bronchial dilatation limited to the apex and simulat

ing pulmonary tuberculosis R Rossi Semana méd 1028 XXX 1370 Bronchial fistulæ twenty four cases treated by Russian

surgeons S Kusmin Arch, f klin Chir 1928 ch 712 Simplified technique in intrapulmonary therapy GARCIA VICENTE Arch. internat, de larvagol 1028

XX1V 1052 Bronchopulmonary syphilis a clinical and radiological

contribution A FIORENTINE Polichin Rome 1028 xxxv sez med 606 A form of syphil of the lung nodular syphilitic sclerosis

with pulmonary panarteritis H DARRE and G Albor Ann danat path 1928 v 861 Pulmonary tuberculosis S W HARRINGTON SUR

Chn N Am 1939 is 138 The value of the erythrocyte sedimentation reaction in

pulmonary tuberculosis J S DIAMO Mil Surgeon 1929

Pulmonary tuberculosis and unilateral and bilateral pne mothorax in pregnancy VI RONZINI Clin oster 1028 KKK 621

15221

574

Fibroma of the laryax G B New Surg Chn V Am Cystic hygroma in a Mongo! R 5 CORBETT Proc. Roy Soc Med Lond 1929 XXII 394 Papilloma of the larvay E BROLGHTON BARNES

1929 14 82

Proc Roy Soc Med Lond 1929 XXII 533

Extrassic epithelioma of the larynt C B New Surve Chn N Am 1929 17 84

The early d a nosis and treatment of larynmeal cancer J E MACKENTY Pennsylvania M J 1929 XVIII 19 Multiple primary carcinomata of the larger and ce ophagus D L William Arch Otolaryn ol 1929 it 151

SURGERY OF THE NERVOUS SYSTEM

Brain and Its Coverings Cranial Nerves

Gunshot wound of the brain J R Barnwry Pennsyl sania M J 1929 xxxii 336 A rifle bullet in the brain for thirteen years C WORSTER DROLGHT Proc Roy Sor Med I and 1929

XXU 39 Ifficiency in civil life following gunshot wounds of the brain with particular consideration of traumatic epilepsy

A STEINTHAL and H NAGEL Beite z kin Chir 1928 cxhn 3.2 Delayed traumatic intracranial hamorrhage E M

HAMMES Minnesota Med 1929 xn 86 Cerebral hamorrhage in a healthy child G H R HOLDEN and H S IEMARQUAND Lancet 1020 ccxvi

Spontaneous subarachnoid hamorrhage and hereditary fues M Fabert Policin Rome 1928 xxxv ser med

The significance of cerebral embol sm in thrombo is of the left auricle with acquired mitral stenosis G Scac

LIA Riforma med 1928 thy 1446 Intracramal studies by ventriculograms W R Bethea Radiology 1020 xii 142 Arterial encephalography P Moniz I de méd de

Bordeaux 1928 cv 915 The brain and hæmatopo esis G Calligaris R forma

med 1928 xliv 1595 Broca s aphasia R ORLANDO and G OROSCO Semana méd 1928 xxxv 1457

Pituitary headache L D SARGENT Pennsylvan a М Ј 1929 хххн 333 Further experiences with the visualization of the hy

pophysis in the encephalogram Heinrich Zentralbi f Chir 1928 lv 2506 Pituitary tumor successfully treated by operation M

HINE Proc Roy Soc Med Lond 1929 XXII 444 Two cases of suprapituitary tumor (adamant noma) Proc Roy Soc Med Lond 1929 xxii 391

The permaxillar operation on the hypophysis A Lau TENSCHLAECER Chirurg 1928 1 30 A ca e of cholesteatoma of the base of the brain with the

symptoms of cerebral tumor L LANGERON and A Lo GRAND Bull et mem Soc med d hop de Par 1028 xliv 1570

An unusual case of osteoma dura matris H. ARNOLD 1928 Dissertation Frlangen.

A case of glioma of the centrum semiovale of the right parietal lobe H G GORDONIER. Ann Int Med 1929 1 815 The roentgen irradiation of brain tumors H RAHM and

L HEIDRICH Beitr 2 klin Chir 1928 cvliv 186 Cerebrospinal cysticerci s di ease A Mago Semana

méd 1928 xxxv 1465 Anasthesia for head operations L. A RETHWILM

California & West Wed 1929 XXX 115 The difficulty of an exact etiological diagnosis in certain cases of meningitis G BARBERA Polichin Rome 1928 xxxx sez prat 2201

The meningeal hamorrha es in arti ular rheumatism PLAZY and MARCOV Bull et m'm Soc med d h3p te

Par 1928 aliv 1540 Lymphocytic typhoid meningitis appearing six weeks after recovery from typhod feve J C W FORENIER C SECANE MURI AN and ASTIATARY In 12c de

med Univ de Montevideo 1929 till 693 Cramal chang s associated with mening my-dural endothelioma A Kolobyy Surg Cynec & Obst 1020

The paranasal sinuses in relation to diseas of the opt c nerve E Hitt. N York State J M 1920 XXIX 13 The origin of acoustic nerve tumors II A 5ki ver Bat J Surg 1929 XVI 440

Spinal Cord and Its Coverings

The removal of a lumbar puncture needle after it h d re mained one year in the spinal canal W Milko Zentralbl f

Chir 1928 p 2775
Spinal cord decompression indications and results
B T Burney New Ingland J Med 1929 ec 219 [519] Mechanical methods aiding localitation of pinal cord compression T W BROCKBANK Virginia M Month

1020 lv 806 Compression myelitis W. A. Swittle and C. E. Donker Am J Surg 1929 vi 151

Some interesting spinal cord lesions D L KERLIN N Orleans M & S J 1929 lexts 566 Spinal cord injuries from blunt f ree LANGE Zentrall 1 f Chir 1928 p 2520

Little s disease treated by Foerster s operation e cell nt result. D M YOVICHITCH and E SORREL. Bull et mem See not dechir 1928 hy 1219

Tumor like nodules in the lateral wall of the spinal medulla in a human embryo 165 mm in length A BERGEL, Ztschr f Neurol 1928 cxv1 687

Tumors of the spinal medulla I Scutpres Riforms med. 1028 xliv 1420 A case of spinal arachno ditis operated up a twice

Z G CHIENOFF and S \ \ \ \ ODOGCT\ bank Ar h arger t de neurol 1928 n 311
The diagnosis of leptomeningioma of the spinal cord
T Thompsov Lancet 1929 cc vi 325

Peripheral Nerves

Handbook of neurology Pt 2 O Buske and O TOERSTER 1928 Berlin, pringer A case of polyneuritis due to inhal tion of carbon d sulphide P I ECHELLE L GIROT and A THEYENARD 929 x! v Bull et mem Soe med d hop de l'ar

Pressure neurtis of the de p palmar branch of the ulnar nerse C Worster Drought But M J 1929 1 24 A case of elephantia is neuromatosa R. L. Spirres an

S. E. FERNANDO Brt M J 1029 1 596 Phrenicectomy R B RETTAL Sur Gynec & Obst 10 0 xlv11 274

An asophagus treated by radium for carcinoma V F VIGES Proc Roy Soc Med Lond 1929 THE 527 Antenor thoracic or ophagoplasty HUEBLER Zen tralbl f Chir 1928 ly 2638

Certain features of mediastinal tumor T M Smith Illinois M I tozo ly 135

Miscellaneous

The significance of changed intrathoracic pressures A GRAHAM Arch Surg 1929 XVIII 181 The management of surgical diseases of the thorax C FMERSON Vebraska State M I 1020 XIV 40

SURGERY OF THE ABDOMEN

Abdominal Wall and Peritoneum

Hernia-a report of sixty Chinese cases T F Soove Vat VI J China 1929 vv 11

Observations upon hernia exceptional cales M CARRERA Bol Asoc med de Puerto Rico 1928 xxi 21 Tuberculosis of the hernial sac S CIOFFARI Ann

nal di chir 1928 vii 1171 Practical surgical considerations of herma Hiscock Kentucky M J 1929 xxvii 51 The Mayo operation for umbilical herma

Zentralb! f Chir 1928 p 272r A case of bilateral oblique internal inguinal hernia 1 Corn Policha Rome 1928 xxxv sez prat 2040 The pentyphlocolic membrane the symptomatology and

diagno is E LEO Riforma med 1928 sliv 1491 Anomalous peritoneal membranes F H GLAZEBROOK J Med Soc N Jersey 1929 XXVI 130

Localized plastic peritonitis of bacillary origin D UNCHALO Rev Asoc med argent 1928 th 931
Primary pentonitis in children A G De Sancris and

R A MICHOLS JR Arch Pediat 1929 xlvi 1 A case of bile peritoritis E M FISHER Med J

Austraba 1929 1 143

Presentation of a case of cured hydatid and bile peri tonitis (traumatic dissemination of echinococci over the pentoneum with rupture of the bile passages) ASCHUETZ Zentralbl f Chir 1928 p 2846

Hydatid cholepentoneum C V A Ugóv An Fac de med Univ de Montevideo 1928 un 656 I case of miliary tuberculosis of the peritoneum and of

the pleura A Vastast Policin Rome 1928 tvt sez prat 2000

Retropentoneal tumors J M MAURY South M J 1929 X4H 149 Retropentoneal lipoma a case report F KATE Beitr

2 khn Chir 1928 p 265 Mesentene defects, with special reference to their etiology and report of a rare case of colonic obstruction

J R JUDD Surg Gynec & Obst 1929 xlvm 264 Vesentene thrombosis and intestinal gangrene

Two cases of mesocolon abscess P L Minizzi and P Morotor Bull et mem Soc nat de chir 1928 liv 1179 The experimental production of enterocysts of the mesentery and of the retropentoneal tissue G Pas

QUALINI Policlin Rome 1928 xxx sez chir 601 Vystic tumors of the mesentery F FHER Casop 1 k česk 1928 p 1361 Operation for tumors with intestinal adhesions and the

tel ort of a case of sarcoma of the mesentery J Kosakak Jap J Obst & Gynec 1928 x1 192

Gastro Intestinal Tract

Routine \ ray examination of the digestive organs L Soness Med J & Rec 1920 CERT 203 Roentgen ray examination of the gastro intestinal tract R W Tours Schraska State VI J 1929 XIV 73

Massive hemorrhage from the gastro intestinal tract L R SANTE Am J Roentgenol 1929 xtl 144
Unusual lesions of the gastro intestinal tract A ARKIN

Illinois M J 1929 h 129
Acute dilatation secondary to hermotomy E Povzi Policlin Rome 1928 xxxx sez prat 1930

Upper gastro intestinal disease associated with syphili H I Bockus and J Bave Am J Syphilis 1929 XIII 33

A new technique for the removal of an open safety pin from the stomach C E Collins Texas State I 1929 XXIV 686

Subcutaneous rupture of the stomach traumatic and spontaneous O GLASSMAN Ann Surg 1920 IXXXIX

The design of the gastric mucosa A Vallebona Radiol med 1928 XV 990

Experimental physiopathology of the stomach as related to the nervous system G Gallt and E Polacco Arch ital di chir 1028 viii 260

The physiopathology of the gastric secretion in a small stomach without a pedicle L Radice Ann ital dichir

Histamine its importance in the gastric secretion J DESTÉPANO and E J LIMA Semana m'd 1928 xxxv

Chriscal consideration of achlorhydria A H Buxes South M J 1929 TXII 119 A study of hyperacidity M E REHPLSS South M 1020 XVII 123

Chronic indigestion—an analysis and classification of its etiological factors L C ALLEY J Med Ass Georgia 1020 XVIII 60 The technique for routine gastric analysis and duodenal

drainage R HANNAT J Kansas M Soc 1929 XXX 52 Rapid eating in gastric therapeutics M L Daza Semana méd 1928 xxxv 1358

Certain relationships of gastric hamorrhage and gastro statis C \ Poss B \ Merxe and \ \ Blexale

J Med Soc N Jersey 1929 xxvi 143 High grade cardiospasm cured by esophagogastrostoms

H Toole Arch f klin Chir 1928 ch 761 Congenital hypertrophic stenosis of the pylorus 1 S BELAVAL Bol Asoc med de Puerto Rico 1028 xxi 20

I yloric stenosis in the presence of ul er of the duodenal bulb G IESU Riforma med 1928 xliv 1560 Hyperplastic tuberculosis of the stomach M FRANCINI

Policin Rome 1928 xxxx sez chir 589 Castric polypo is and pneumogastrography A Lauas and B V FUENTES In Fac de med Univ de Vionte

video 1028 xiii 637 Benign tumor of the stomach associated with massive gastric hamorrhage D C Balleour Surg Clin \ Am

1030 17 10 Gastrectomy for tumor in a woman of twenty six years A ALSENA MAGEL Rev Asoc med argent 1028 xly

The significance of various chinical and laboratory factors in the diagnosis of peptic ulcer T G Miller, N York State J 1 1929 XUX 129

Unilateral pneumothorax the behavior of the mediasti num H LILIENTHAL and J B AMBERSON Arch Sur 1929 XVIII 533

A new portable apparatus for the induction of pneu mothoray II Basabe Semana méd 1928 txxv 1278 The effects of a large closed bilateral pneumothorax or thoracic lymph flow T S Dolley and E R Wiese Arch Surg 1929 Xviii 542 The immediate results of fourteen thoracoplasties for

pleuropulmonary tuberculosis Monry Carpis and Picor Rev méd de la Suisse Rom, 1028 xlym 000

The strain on the collateral fung in collapse therapy E D CHURCHILL, Arch Surg 1929 VVIII 353 The problem of collapse therapy in pulmonary tuberculo-P H RINGER Med Clin N Am 1929 xii 1403

Surgery of the phrenc nerve and intrapleural pneumoly SIS E J O BRILL J Am M ASS 1929 VCH 463

Oleothorax F G CHANDLER Proc Roy Soc. Med

Lond to 0 txu 400 Fusospirochætal disease of the lungs E W CARPENTER J South Carolina M Ass 1929 xxv 325

Pulmonary gangrene due to spirochates and fusiform bacilli J M Lewis and L H Barenberg Am J Dis Child 1929 XXXVII 351 The presence of spirochates in pulmonary gangrene

R MENASCI Policlin Rome 1928 TXXV Sez med 581 The chronic purulent bronchorrhomas E SERGENT Rev Asoc med argent 1928 xli 845

Some cases of pulmonary suppuration O Coqueter I de chir et Ann Soc belge de chir 1028 n 166 Abscess of the lung from ingested food E RICCIOLL

Policha Rome 1928 xxxv sez prat 1982 Two fatal cases of lun, abscess presenting difficulties in diagnosis and treatment O EGBERT and W W WAITE

Texas State J M 1929 vm 683 The differential diagnosis of abscess and gangrene of the

lung L M ASTI Radiol med 1928 xv qSI Pulmonary abscess and pulmonary gangrene clinical course and pathology B S KLINE and S S BERGER

[523] Arch, Surg 1929 xviii 481 The surgical treatment of pulmonary abscess and gangrene Collapse or pneumotomy? L BRAUER. Bestr Klin Tok 1928 lax 341

The relation of pulmonary abscess to the su gery of the throat, J C Roca Bol Asoc med de Puerto Rico 1928 XX1_41

Cyst of the lung reco ery following operation for permanent drainage H LILIENTHAL Arch Surg 1929 523 xviu 292 Lobar pneumoma considered as pneumococcic lobar

atelectasis of the lung bronchoscopic investigation P N CORYLLOS and G L BIRNBAUM, Arch Surg 1929 XVIII Experimental atelectasis W E LEE G Tucker I S

RAVDIN and E PENDERGRASS Arch Surg 1929 XVIII Massive atelectasi complicating paravertebral thoraco

plasty for pulmonary tuberculosis F B BERRY Arch. Surg 1929 TVIII 257 Some essential points in the diagnosis of primary cancer

of the lung R Rossi. Semana med 928 xxxv An element of diagno is of cancer of the lung E Troise and L DE MARVAL, Semana med 1928 xxxv 1530 The pathology of ce tain signs and symptoms in primary

carcinoma of the lungs, illustrative cases C \ Weller Ann Int Med 1929 ii 725 Primary cancer of the lung W Mever Arch Sur

t523 1020 xviii 307 Carcinoma of the lung J D KERVAN and A J CEA COVANER Arch Sura 1929 XVIII 315

Primary carcinoma of the lun | J ORGAZ Semana med 1928 XXXV 1305 Complicated pneumopath es and late postoperative

belge de chir 1929 p 216

oneumopathies Coqueter J de chir et 4 n Soci Surgical principles underlyin one stage lobectomy II BRUNY Arch. Surg 1929 XVIII 490 Perforation of the pleura by an inspired foreign body

H B GRAHAM Cabiornia & West Med 1929 XXX 120 Routes of infection of the pleura HERREARTH Zen tralbl f Chir 1928 p 2582

The splenopneumonic syndrome and left interlobar feurisy intervention recovery H. D Hour and R. DESPLATS Bull et mem. Soc med d hop de Par 1928 Xhv 1460

Six cases of pleuropulmonary suppuration J Milant and M Dégor Bull et mem Soc med d hop de Par 1028 xhy 1447

Pleural empyema Melcenon Zentralbl. f Char 1928 p 2581 Thoracic empyems treated by injections of optochin

R FRANK Med J & Rec 1929 CXXII 150 The treatment of empyema J E McFARLANE J Kansas M Suc 1929 XXX 3

The treatment of empyema in children REINOLD Zentralbl f Chir 1928 p 2583 Empyema of the right side of the thorax pleural effus on in the left side and purulent pencarditis S W Harring-

TON Surg Clin N Am 1020 by 133 Acute empyema with postpreumonic pulmonary atelectasis relieved by bronchoscopy L F BUTLER Pennsylvania M J 1929 xxxii 337

Heart and Pericardium

Acquired dextrocardia C A Henston Arch Surg

1929 XVIII 349

Heart block due to primary lymphangio-endothelioma of atnoventricular node P C LLOYD Bull. Johns Hop kins Hosp Balt, 1929 zliv 149 The present status of the surgical procedures in chronic

va vular disease of the heart final report of all surgical case r C COTIER and C S BECK Arch Surg 1010 [524] AAIR 103

Esophagus and Mediastinum

Curious malformation of the upper digestive passages Banangen Arch internat delaryngol 1028 xxxiv 1077 Congenital atressa of the oesophagus with abs nee of the midportion W P WALKER Penn shanis M J 1929 T TH 335

Specimen excephagus from a middle aged man showing t con enital opening into the traches V E \Ecc Proc Roy Soc Med Lond 1929 XXII 32

(Esophag al diverticulum G Rice Colorado Med

1920 x vi 34

(Esophageal diverticulum a case report L W FRANK Kentucky M J 1929 WH, 85

Poisoning due to caustic alkalies and its mevitable sequela cicatricial stenosis of the osophagus F CAPUTL Ras egna internaz di clin e terap 1028 ix 109 I coue ulcer of the resophagus J FRIEDENWALD M FELDMAN and W F ZINN Am J M Sc 1929 clarva 1

Paralysis of the recurrent nerves in cancer of the cesophs gus Sargvov Arch internat. d laryngol 1928 xxx

Carcinoma of the osoph gus treated by radium \ E NECUS Proc Roy Soc Med Lond 1929 xxu 527

Duodenal ulcer 1 S Jupo Virginia M Month 1020

Duodenal ulcer in a child. H. Bowa. Beitr z klin. Chir. 1028 CXIIV 234

Surgery of gastric and duodenal ulcer \ W GILLETTE

Ohio State M. I. 1020 XXV 103 The treatment of duodenal and facal fstula further obervations C A LOTTER J Am M Ass 1929 xcn

T o cases of stenosis of the small intestine above a large Merkel's diverticulum diverticulo-anastomosis reco ery I C BLOCH and CLAEO Bull et mém Soc nat de chir

1028 ht 1227 Hypertrophy of the distal portion of the ileum R MACKINIAY Lancet 1929 CLTV1 282

Research volvulus from adhesions formed by left sided pelvic appendicitis W. A. COCHRANE Brit M. I. 1929.

Is sleotercal valve in ufficiency a di ease entity? !! Tornis Arch f khn Chr 1928 ch 83 Weckel's diverticulum S W HARRINGTON Surg

Clin \ Am 1929 1x 126 Meckel's diverticulum F Susovi and Aston Bol Asoc med de Puerto Rico 1929 xxi 47

I grant Meckel's diverticulum L GRIMAULI and L CAPETTE Bull et mem Son nat de chir 1928 liv

The rol of Meckel's diverticulum in pathological con ditions T Pederses Hop Tid 19 3 hrt 554 58

Consi lerations upon retrograde movements of the colon E lazze Rudiol med 1928 xv 1038

Megacel n in the adult Z SAGAL Med J & Rec 1020 CTX17 210 Huge idiopathic dilatation of the colon in an adult]

BICASTEN Med J & Rec 1929 CTTIX 214
Mucous colitis W A BASTEDO J Am M Ass 929

The as ociation of chronic colitis and cholecystiti M CARR South M J 1929 3411 19 Chronic ulcerative colitis H B StoxF Pennsylvania

M J 19 9 XXXII 211 The treatment of colon infection J W WILTSIE Med J & Rec 1920 CXXIX 215

cutralizati n of the toxins of dy sentery with cholesterin M MAZZEO Riforma med 1928 vliv 148 The diagnosi of cancer of the colon C J MACAULES Bnt M J 1929 1 187

The picture of colon carcinoma simulated by extra intestinal tumors I Hollaevder klin Wchnschr 1929 P 224

Colloid carcinoma of the colon and rectum F W RIVAN and C I CHUMLEY Arch Surg 1929 TVIII

Immary carcinoma of Bauhin's val e L Ápán Zemrali 1 Chir 1928 p 2187

Laterostomy-its surgical importance T (Fost South M & S 1929 tci 96

Interestomy with the fenestrated T tube F S Hot GH 4m J Surg 1929 1 182 Practical points in colostomy J B CARNETT and J C

Howell Med J & Rec 1929 CTRIY 209 The care of the colostomy (I BINKLEY Ann Surg runt

Malignant lymphord tumor of the cæcum involving the carum and the ascending colon the terminal ileum and a hi h loop of small intestine and fistulizing into the colon

complete re ection in one stage excellent result at the Ann Surg 020 Ixxxiv 7 fittenth month J BRAINE and ROUN BERGER Bull et mem coc nat de chir 1928 hv 1208

Carcinoma of the cacum H \ Din Pennsylvania M J 1929 xxxii 33,
The pseudo-appendicular syndrome L Sussic Poli

chn Rome 1928 vvv sez prat 2031 Appendicular colic G METIVET and V VFAL et mem Soc nat de chir 1928 liv 1136

Diverticula of the appendix F Paolitics Ann stal dichir to 8 vn 1101 Affections of the appendix in young children T W

PETERSON Ann Surg 1929 ITTEL 45 Notes on the etiology of appendiciti W H Bowes

Guy s Hosp Rep Lond 1920 lxxx 61 Appendicitis in Java Moa contribution on the etiol

ogy of appendicitis A E Strise Wien med Wchnschr 1928 D 1453 Appendicitis a rare occurrence in natives and planters

living in the bush Vicoras Bull et m'm Soc d chir urgiens de Par 1928 xx 794 Chronic appendicitis L ASCHOFF Med Klin 1028 p.

Chronic appendicitis L RAMOND Pres e méd Par 1028 XXX 1 1467

Chronic appendicitis with the picture of rectal carcinoma A DZIALOSZYNSKI Zentralbl f Chir 1928 p 2568

Primary inflammation of the appendix in a hernial sac Lazaretic Zentralbl f Chir 1928 p 9,8 Appendicitis and hæmaturia F Bayya Bol Soc de med e cirurg de S laulo 1928 xi 206

Considerations upon the relations of appendicitis chol ecystitis and gastric and duodenal ulcer. A Gallassi Arch ital di chir 1928 xxii 385 Recurrence of appendicitis in the appendiceal stump

P KEMPENEERS I de chir et Ann Soc I elge de chir 1028 p 181

Myoma of the appendix 1 R Koovez 1nn Surg 1020 IXXXX 272 Primary carcinoma of the vermiform appendix

SELINGER Ann Surg 1929 Ivent 2 6 Appendectomy and inguinal hernia K MERMINGAS Zentralbl f Chir 1928 p 281

Appendectomy wound repair and hernia I II GAR LOCK Ann Surg 1929 IXXXIX 282

Amoubic ulcer of the abdominal wall following appended tomy with drainage with the report of a case W II COLE and M I HEIDEMAN J Am M Ass 1929 TOH

Abdominal complaints due to an ectopic position of the descending colon S HYLKEMA Nederl Tridschr v Geneesk 1928 p 46,6 Polyp of the sigmoid F W RANKIN and C L CHLM

LEY Surg Clin N Am 1929 IX 106 Prolapse of the rectum in children J J Cornert

Surg Gynec & Obst 1020 xlviii 280 An anomaly of the rectum L W GROVE I Med Ass

Georgia 1020 XVIII 67 Present-day knowledge of disea es of the rectum and

colon and their relation to remote di orders J R WA
THEN G A HENDON G S HANES and J G SHERRILL Kentucky M J 1929 XXVII 54

What can the general practitioner to for rectal emer

Kansas M Soc 1020 xxx 47

Drainage of the ischiorectal fossæ in the presence of

fistulæ and perirectal abece ses O COQUELET J le chir et Ann oc belge de chir 1928 p 164 Carcinoma of the rectum and rectosigmoid L I HARN

Old and new suggestions for the erad cation of rectal carcinoma M KIRSCHNER Chirurg 1928 1 1

Gastroduodenal hæmorrhages of ulcer onem DELORE and J De GIRARDIER, Rev de chir Par 1928 X 11 420 Seasonal variations in gastric and duodenal ulcers k. Hurren. Arch f klin Chir. 1923 ch. 631 The etiology of ulcer of the greater curvature V David

Acta chirurg Scand 1928 Ixiv 329 [526] Fundamental factors in the pathogenesis and treatment

of peptic ulcers C S DANZER. South M J 1929 TXII 178 Ruptured gastroduodenal ulcer W L Wolfson and I

GRAY Ann Surg 1929 lxxxix 264 The medical treatment of gastric ulcer G G Richards

Ann Int Med 1920 u 71 The novoprotein treatment of gastric ulcer L FISCHL

Muenchen med Wchnschr 1028 p 1801 Dietetic treatment (Rus ian) for gastroduodenal ulcers

and diet for the pre ention of recurrence of carcinoma Lieuz Zentralbi / Chir 1928 p 2711 Antrum resection for gastric ulcer of the cardia H

DIETRICH Zentralbl f Chir 1928 p 2810 The operation for gastric ulcer in highly exsanguinated

patients I PENDL Bestr z klin Chir raz8 cxhv

Gastrectomy for gastric ulcer and gastric cancer [M EMMETT Virginia M Month 1929 lv 759 The results of resection of the stomach for gustric and

duodenal ulcer P Bastranelli Arch stal di chir 1028 XXII 127 (527) Recurring peptic ulcer folloving repeated partial gas-

trectomy D C BALFOUR Surg Clin N Am 1020 Jejunostomy for recurring peptic ulcer following partial

gastrectomy D C BALFOUR Surg Clin N Am 1020 ix 23 A follow up investigation of surgically treated cases of perforated gastric and duodenal ulcer DE CALUWE

Vlaamsche geneesk Tiid chr 1028 p 78 The question of development of carcinoma from a gastriculeer L vov Ferster. Deut che med Wehnschr

1028 p 1882 I it possible definitely to exclude gastric carcinoma by physical examination? von Schnurbein Zentralbl f

Chir 1028 p 2828 Two cases of gastric carcinoma surgical treatment late death G MILONE Riforms med 1928 xliv 1389

Lytensive carcinoma of the stomach with pancreatic invol ement cases in which satisfactory results followed rese tion E S Jupp Sur, Clin N Am 1929 ix 1 Combined spinal and local anasthesia for abdominal

intervention of long duration part cularly for gastrointestinal operations Horrologei and Duval Bull et mêm Soc nat de chir 1928 hv 1122

A plastic gastrostomy G Zecher Arch f klin Chir 1928 ch 809 Gastro-enterostomy D P D WILEIE Surg Gynec &

Obst 1929 xl 111 Antrectomy in the d turbances following gastro enterostomy D DEL VALLE and R DÓVOVAN Semana

méd 1928 xxxv 14 7 Some remarks on degast o-enterostomy H JANSEN Arch f klm Chur 1928 ch 706

The cautery in operations upon the stomach C A PANNETT Brit M J 1929 1, 240 Volvulus of the intestine R P ROWLANDS Brit M

T 1929 i 287 a study of 343 surgical cases of intestinal ob truct on

C J MILLER Ann Sure 1929 Exxxx 91 Acute intestinal obstruction C F Dixov Surg Clin N Am 1929 IX 211

The occurrence of bacillus welchu n e p rime tal hiel intestinal obstruction S J STABLES and J A KF NEDY Arch Surg 1920 xviii 153 Intestinal obstruction due to pinworm (oxyuns v mi cularis)-with case report \ C Stokes \chriska

State VI J 1929 XIV 83 Spastic ileus and the overeatin of fuit Pers lausten Med Klin 1928 p 1669

Paralytic ileus as a complication of acute appendi itis and its treatment by entero tomy L Dunanti. Lich ital di chir 1928 xxii 254

Spinal anæ thesia in the treatment of paralyti sleus-a correction W. E. Studding Sur, Gyne & Ol t 1020 Ylvin 283

The effects of lymphaticostomy in init tinal of true tion R Palma Arch ital dichir 1928 xxi 343 The su gical treatment of ess ntial copro tusi BEULE J de chir et Ann Soc bel ed chir 1918 p 216

Perienterocolitis and acute intestinal ol struction I TRÉMOLIÈRES and J MARCEAU Pre se m d Par 19 S XXXV1 1489

Tuberculous enterocolitis T Smirings M Wayson and F FREMMET J Am M Ass 1028 vci 19,2 [53] Surgical complications in a family ill with typhoid fever M SLEBNER Deutsche med Wehnschr 1928 p 1883

Inte tinal stones A DRESCHER Zentrall I Chir 1928 P 2758 The technique of resection of tempor y art had in testinal fistular A kanton Zentralbi f Clin 19 3 p

The differential diagnosis of common on its us i

Puerto Rico which cause intestinal ulcer ii n M I Dfaz Bol Asoc med de Pue to I 100 1928 VXI 7 Diverticula of the small bowel E L IEVER A

Radiology 1929 XII 100 The occurrence of chronic intussus epison 1 young cliff dren P W BEAVEN Am J D: Child 1929 XX 1 37

Acute intussusception in the nurshing and the chill G METIVET and V VEAL B II et m m Soc. n t d chir 1928 liv 1133 An unusual case of intussusception D Swarzz

Canadian M Ass J 1929 XX, 172 Intestinal obstruction due to invagination [M

BONELLI Bol Asoc m d de Puerto Rico 1925 1 11 Cholere acid enterolith J HELISTRON Acts ching 1531

Scand 1928 but 19 [53]
A case of multiple polyposis of the small 11t tin i
CHATTERI Calcutta if J 1920 iii 410
A case of canc r of the sm il intestin his land J d NEC 148 7 de

chir et Ann Soc belge de chir 1928 p 185 Unusual duodenal conditio s as d mon trated by th X ray V W Archer and C H Perresso Art, nia W

Month 1929 ly 762 Perforation of the duodenum by a fo ign body in a child of fifteen months inte ention reco ery R. Dou BRÈRE and A MARYIN Bull et mem S c nat de chir

2028 by 21 6 Glandular compre sion of the duode of nal fle ure O ORTH Zent albl f Chi 1928 p 2509

Reflux of the duodenal co tents th ough the c mmon ble duct L Davis N England J Med 1029 cc 313
A contribution to the ral ological study of duodenal

diverticula A RATTI Radiol m d. 1925 vv 1111

Benign tumors of the duodenum D C BALFOLR and

E F HENDERSON Ann Surg 929 tvvuv 3

Hæmangioma of the duodenum E, S Jian burg Clin N Am 1929 ix 6

Acute peptic duod nit s a contribution on pepti ulcer F BUECKNER and F KNOPTEKE Bettr z path Anat u z allg Path 1928 laxx 496

Splenectomy for hamorrhagic purpura of childhood W. B STEWART J Med Soc N Jersey 1929 TXVI 116 Splenectomy for Gaucher's disease E BEER Ann Sure 1010 ITETIT 200

Miscellaneous

Penetrating wounds of the abdomen study of sixty one cases A M McKetthen Kentucky M J 1929 ervu 7

Chronic right side abdominal pain Ignarys V Zealand M 1 1029 XXVIII 400

Diagnostic and therapeutic errors and their avoidance Surgery J Schwalbe Vol iv The diaphragm internal bernix gastro-intestinal canal exclusive of the duodenum appendictus and obstruction E Heller The stomach and duodenum J HOHLBAUM Obstruction O KLEIN

The diagnosis and treatment of acute abdominal pathology U Maes Am J Surg 1929 vi 169 Eventration of the diaphragm H Morris Brit J

Radiol 1929 n. 85 Diaphragmatic hernia S W HARRINGTON Surg Chin Am 1920 1x 142

A case of diaphragmatic herma and the method of choice in the surgical treatment I BARCAROLI Policlin Rome

1918 xxxv sez prat 2035 Operations for visceroptosis A Schuipr Zentralbl f Chir 1928 p 2710

Death due to an injury of the inferior epigastric artery HREBACKA and F KLEIN Bratislavske lekarske listy 1928 vm R2

Experimental proof of intoxication as the cau e of death

in obstruction HAERLER Zentralbl f Chir 1028 p. 2721 The acute abdomen R H MEADL IR Virginia M Month 1020 ly 811

The treatment of some acute abdominal disorders R

I McN Love Lancet 1020 cctv1 475 Personal expenences in abdominal surgery emergencies I COHN New Orleans M & S J 1929 Ixxx 551

Abdominal surgery and the general practitioner F II LAHEY Canadian M Ass J 1929 to 121

Three cases of abdominal surgery with many unusual details I Scatony I oliclin Rome 1928 xxxv sez chir

An unsuspected condition (echinococcus cyst of the liver) found at surgical intervention performed for contu sion of the abdomen S Scicliano Riforma med 1028

The favorable action of abscesses on complications following abdominal operations W PEWNY Therapia

1028 VII 4 Repeated non bloody opening of the abdominal cavity following a single laparotomy | DEITSCH Arch f exper Path u Pharmakol 1028 CXXXV 245

Experiences with antitoxic bacillus coli serum Konter Lentralbl f Chir 1928 p 2723

Successful results from the use of bacillus col: serum in diffuse and localized peritonitis Lengenany Zentralbl f

thir 1928 by 2571
The histology of beginning mucosal carcinoma Punt. Zentralbl f Chir 1928 p 2855

GYNECOLOGY

literus

Lienne biprodols their value in gynecology VAN DER East and GAUTOT Gynéc et obst 1928 XVIII 405 Congenital malformations of the uterus and vagina

Report of three cases F E LLIMAN and J R MANLEY Minnesota Med 1929 XII 71 Chronic utenne inversion surgical treatment subse

quent pregnancy, casarean operation E Nicholson Bol Soc de obst y ginec de Buenos Aires 1928 vil 392 Intestinal obstruction following the Webster Baldy operation for retroversion J DE J PEMBERTON and W W SAGER Surg Clin N Am 1929 ix 203

The interposition operation for prolapse of the uterus J L Birk and R A Reis Am J Obst & Gynec 1920 rvii 233 The surgical treatment of utenne prolapse J C Masson

Minnesota Med 1029 xii 67 Later experiences with uterine prolapse operated upon by our technique E Scipianes Orvosi hetil 1928 p

Genital prolapse the Schauta Wertheim operation subsequent pregnancy M L PEREZ Bull Soc d obst et de

D'ofc de Par 1928 zvii 887 Alrests of the cervix following uterine curettage A Rove Nat VI J China 1929 xv 34

Utenne perforation with pelvic peritonitis hysterectomy Mikuhez secondary ileostomy recovery Guyor and litter Bull Soc d'obst et de gynée de l'ar 1928

The hydrogen ion concentration of the endocervical secretions with special reference to chemical factors in the causation of sterlity S R MEALER and W GLASER Surg Gynec. & Obst 1929 zlvin 73

Rhythmic variations in the vascularity of the interes of the guinea pig during the destrous cycle J I MARKEE Am I Obst & Gyriec 1020 XVII 205

An etiological and chinical study of utenne bleeding at the menopause W BENTHIN Monats chr f Geburtsh u Gynaek 1928 lexx 117

Tuberculous endometritis H L REINHART and R 1 MOORE J Lab & Clin Med 1920 XIV 413 The treatment of metritis by intramucous and sub

mucous injections of vaccine local vaccination BASSET and P POINCLOUX Gynéc et obst 1928 xviii [535] Gummatous syphilis of the uterine cervix I IRIBARNY

and A RUBINSTEIN Bull Soc dobst et de gynée de Far 1028 XVII 800 Abscess of the wall of the uterus with hamolytic strep

tococcus Massel Am J Obst & Gynec 1929 XVII 26: Metastatic pneumococcic abscesses in myomatous nod A LENIN

ules folloving pneumonia Gynaek 1928 p 2657

The dissemination of tumor material from the uterus through the tubes E Voct Wien med Wchnschr 1029 P 1311

The presentation of a cystic fibroma J ROUFFART Bull Soc d obst et de gynéc de Par 1928 XVII 882

The radiotherapy of uterine fibroma E Bignami
Actinoterapia 1928 vii 132 Gangrenous fibrous polyps and utenne f broma varinal

hysterectomy recovery Atmovr and Basser Bull et mem Soc. nat de chir 1928 hv 1180 Adenoma of the uterine corpus L. Puccioni Riv ital

diginec 1928 viu 147 Pneumocystoradiography in the study of calcified uterine tumors \ Podesta Radiol med 1928 rv 1173

H HARTMANN

The treatment of carcinoma of the rectum T E Jones Am J Roentgenol 1939 181 168

580

ternat J Med & Surg 1929 zhi 64
The operative treatment of rectal carcinoma
SAUERBRUCH Med Klin 1928 p 1666

The treatment of rectal cancer

Radiosurgical treatment of cancers of the ampulla of the rectum results after five years. Neuman and Coryv J de chur et Ann Soc belge de chur 1928 p 190 Simphilying rectal surgery. W. F. Burrkows and E. C.

Simplifying rectal surgery W F Burrows and E C
Burrows Med J & Rec 1929 crux 216
Persistence of the cloaca S G Major Minnesota

Med 1929 xii 96
The injection treatment of hæmorrhoids V Meisser
Acta chirurg Scand 1928 kiv 3tt [531]
Clinical studies on the tonus of the anal sphincter A

Laewen Deutsche Zischr I Chir 1928 ccm 371
The cause and cure of anal fissure and ulcer A B
Jaurson Med J & Rec 1929 ccm; 418
An anal retractor N D SMITH Surg Chin, N Am
1929 1X 245

Liver Gall Bladder Pancreas and Spleen

The liver and its functions C H Mayo Texas State

J M 1039 xxiv 695

The phenoltetrachiorphthalein test in the diagnosis of hier diseases 5 H Liu Nat M J China 1939 xv t

The chincal value of hiver function tests and magnesium subshate treatment of bile pas are unflammation. Its

KER Zentrallol f Chr. 1928 p. 2843
Americ hepatic abscesses in a cloud of twelve years F
POZZO and N OLTA'AN Semana med. 1928 XXXV 1483
FOUR cases of abscess of the liver following appendicuts
S LENDOUSE Acta Christy Scand 1928, live 35 (582)
Multiple miliary abscesses of the liver laparotomy and

vaccine therapy recovery G CICCONARDI Ann ital the chir 1928 vii 936 [532]

Recurrent abscess of the liver a case report R R

ELMORE Kentucky M J 1929 xxvu 82

A hydatid cyst of the liver Moreau J de chir et
Ann Soc belge de chir 1928 p 202

A case of hemochromatosis complicated by a primary carcinoma of the liver R Donatosov Guy a Hosp Rep Lond 1929 lexix 28

The remo al of a primary carcinoma of the liver E S Hircks Canadian M Ass J 1929 xx 169 Hepatochalangogastrostomy A Fuerst Časop lék cesk 1928 p 1372

cesk 1928 p 1372 Visualization of the gall bladder and diagnosis of gall bladder conditions from an X ray point of view M B LITENTE I Oklahoma State M Ass 1929 XXII 36

The interpretation of cholecystographic findings J T

CASE Ann Surg 1929 IXXXX 222

The limitations of cholecystography H J Stats F E

The limitations of cholecystography H J SIMS F E
DEIMER and P C CARSON Colorado Med 1929
xxvi 43
Cholecystokmetic cholagogues particularly Boyden s

meal in relation to cholecystography R. Choisy Rev med de la Sui se Rom 1928 xlvin 951 The significance of gall bladder impress ons R Viviani

Radiol med 1938 xv 1050
Can the gall bladder empty through duodenal hi ary
Can the gall bladder empty through duodenal hi ary
dramage 18 the gall bladder the source of B blie A
cholecystographic study of bliary dramage B B V
Lyov Arch Int Med 1903 xbii 147
Congential kinking of the fundus of the gall bladder

H BRONNER Zentralbl. f Chr. 1928 by 2200
The diseased gall bladder C W Allen New Orleans
M & S J 1929 kxxx 548

Cholecystitis diseases which complicate and simulate it

D Giordano Riforma med 1923 xh 1531 Operative indications in acute cholecystits G Petrals Zentralbl f Chir 1928 p 2842 Chirurg 1928 1 15 Contribution on the chirical significance of gall stones

W FREDRICH 1923 Dissertation Erlan en
The prevention of gall stones E S RYERSON Canadian
M Ass J 1929 xx 152

Spontaneous fracturing of gall stones C HEHMESPARE. Zentraibl f Chr. 1928 p 2893

Concerning two emergency cases of cholecystostomy for bihary calculu PAUCHET and IASQUALIS Bull et mém Soc d chirurgiens de Par 1928 xx 1/4 Gall bladder operations and their results Scritzife

Zentraibl f Chir 1928 p 2352
A critical note upon extirpation of the gall bludder
G Balice Polichin Rome 1928 vx sez chir 55

The use of the tenns forceps in cholecystectomy II

Linuxell Am. J Surg 1920 vi 189

The late results of cholecystectomy for calculous chole

cystitis A ROBBIANT Bol in t. de clin quir 1928 iv

85 [533]
Complete biliary of struction the sign of neoplastic obstruction of the bile passages A J Be COLEA and C V SUAREZ Semana med 1928 XXV 1282

Two cases of icterus due to complete obstruction of the common duct by stone cured by surgery P Basriavelli

Polician Rome 1928 xxxv sez chir 563 Stones in the common duct following the removal of the gall bladder E S Jupp Surg Clin V Am 1929 in 8 Cancer of the ampulla of vater I Leasungs D

BRACHETTO-BRIAN and G OROSCO Semana med 1928 xxxv 649 [533] Closure of the abdomen without drainage in operations on the bile tracts PETERMAN Zentralb! f Chir 1928

P 2746
Chronic pancreatiti A HAAR Nederl Tijdschr v
Geneesk 1928 P 5431
A crass of pancreatitis associated with militars P

A case of pancreatitis associated with mumps P MERKLEN and H GOUNELLE Bull et mem Soc med d hop de Par 1928 xhv 1490

Acute hamorrhagic pancreatitis with tuberculous decase of the pancreas J A M Camerov and M Gillespie But M J 1929 1 344 Subacute encysted pancreatitis terminated by an acute

attack necessitating intervention recovery Theore and
Bull et mem Soc of charageas de Par 1923 xx 782
The treatment of pancreatic fistule M CORACHAN
Person med Par 1923 xxxv 1914

Presse med Par 1938 xxxv1 1394

The effects of the retention of pancreatic secretion J
BALO and H C BALLON Surg Gynec & Obst 19 9

tloui r

Traumatic rupture of the spleen complicated by hama turia B V DUNN Brit M J 1920 1 349 The so called two stage rupture of the spl on M STOLE

The so called two-stage rupture of the spl on M STOLES
Med Wichnschr 1938 p 2160
Experimental studies upon the venous blood of the
spleen physiological deductions L Biner and A As
NAIDET Bull et mem Soc med d höp de Par 1938

xi v 1493

The sple n in the metabolism of sulphur R PaotNi

Riforma med 1928 zliv 1341 Splenomegaly with mycosis M Liseva Rif ima med

1028 xliv 1340
Large splenomegaly complete infarct of the spleno due to thrombosis of the splenic vess is due to an unrecognized gastric ulcer M Secretan Re méd de la Suis e Rom

928 xivin 1014
Thre cases of splenectomy for splenomegaly
Jonas J de chir et ann Soc belge de chir 1928 p 155

Miscellaneous

The nev gynecologic clinic at Leipzig and the builting of gynecological clinics in general W STOECKEL Ztschr (Geburtsh is Gynaek 1028 xcm cor

The progress of teachin, and pra tice in gyne ology during the last four decades B C Hirst Am J Obst

4 Gynec 1020 XVII 200

Visualization of the female pelvi viscera H COHEN Med. J & Rec 1912 cttit 130 191

The u e of lipiodol in gynecology CHARBONNEL PÉRY an'i Magevote Bull So d'obst et de gynec de Par

19 8 XVII, 849 Studies upon the hemogram of Schilling in the gyne colonical field M Trettenero Riv ital di ginec 1928

SIII 279 The use of stryphon as a hæmostatic in gynecology R Arvischia, Wien Lim Wchnschr 1928 p 1223

Gelonida anti neuralgica as an analyesic in gynecology V RODECURT Med Klin 1928 P 1557
Protein therapy in gynecology G F Hibbert Am J

Obst & Gynec 1929 XVII 227 Simultaneous genital and rectal prolapse \ Caviglia

Bull Soc d'obst et de gynée de Par 1928 xvii 888 Plastic closure of an acquired defect of the vesico vagnal urethral septum MLELLER Cas | k cesk 1928 P 1350

Lumbar pains and their treatment P RILLE Gynéc et obst 1028 xvm 425

The treatment of acute pelvic conditions with ditonal Holfschilder Zentralbl i Gynaek 1928 p 2042 The relation of appendicitis to diseases of the female

genitalia C I ATYOL Orvo i hetil 1928 lyni Wilk injections in the treatment of pelvic inflammatory di case R L WATKINS Northwest Med 1920 XXVIII O

Infections of the female pelvic organs II SCHMITZ Vorthwest Med 1929 TXVIII 65

Douglas itis Henrotay Crousse and Schockarry Bull Soc d obst et de gynée de Par 1028 von 883 Internal adhesions of fuetic origin involving the internal cenitalia Cutreco Bull Soc d'obst et de gynée de Par-1028 XVII 887 Pelvic varicocele A W Pigrord J Oklahoma State

M Ass 1020 XXII 31 Endometriosis A Hosor and L H MEEKER Arch

Surg 1020 XVIII (1 Pyploratory laparotomy A VON FERFTE Zentralbl f

Cynaek 1028 lit 2527 The removal of a large f broma incarcerated in the

pelvis L DEVRAIGNE Bruxelles mé 1 1028 ix 73 Ten years expenence with gynoplastic repair of old lacerations during the lying in period with report of 1010

cases I L BLBI Ohio State M I 1929 XXX 100 Sexual life and alcohol G KLATT Internat Z Atko holi m 1028 YTXVI 107 Steribty G L SAXONA Antiseptic 1020 XXVI 6.

The management of sterility An analysi of sixty seven A MATHIEU and G C cases in private practice

Schauffler Northwest Med 1929 xxviii 53 Sterilization without unsexing I Surgical reviev I I DICKINSON I Am M Ass 1020 KCH 3 3

Chemical studies of the menstrual blood and O WALDBAUER Oryon hetil 1028 p 010

The causes of the non-coagulability of menstrual blood M VON FALLENHAUSEN and A I PRGIALIS Zentralbl f Cynaek 1928 lu 2 38

Blood-cholesterol during the menstrual and epileptic cycles E Coopall Lancet 1020 ccxvi 481 The effect of gymnastics on menstruation preliminary

report E Schlesinger Zentralbl f Gynaek 1028 p. 2 58 Amenorrhoea during and since the war. A retrospect on the ten years following the war G TEEBEEN Zentrall !

OBST F FRICS

f Gynaek 1928 p 2966

Pregnancy and Its Complications

The diagnosis of early pregnancy through the detection of female sex hormone in the urine C MAZLE and J If rruss Am J Obst & Gynec 1020 vvn 86 . In outline of prenatal care C II Lrwis California

& West Vied 1929 XXX 108 The venous p essure in pregnancy (SLPERBI RIV

ital diginec 1923 viii 64 Ophthalmotonus in pregnancy \ Garofalo Chn ostet 1928 xxx 701

The cause and significance of the pigmentation of preg nancy H GROSSMANN and SCHOENBERG Geburtsh u Gynaek 1928 xcm 734

Maturation of the smooth muscle fibers of the uteru in presmancy II AFTEFER Bru elles med 1028 iv ! Dilatation of the cervit in the cour e of pregnancy

Pery and l'ALCERE Bull Soc d'obst et de gynéc de Par 1019 XVII 861

Dot ble uterus and pregnancy D IRAETA and I HARGUYNDEGLY Bol Soc le obst y g nec de Ruenos lites 1028 111 402 The diff culties of diagno is in extra uterine pregn nev

J V GARASTON Semana med 1948 x x 1336 Fatra uterine pregnancy W D S fifth Tri State Mel 1929 1 90

Tatra uterine pre-nancy due to salpingotul erculo 1 M U.S.S.A. Clin ostet 1928 xxx 806

Interstitial pregnancy F G BRADDOCK and K I' Scorr Northwest Med 1929 XXVIII /2 A case of bilateral tubal pregnancy SCHOCKAURT LAN CALWENBERG NISOT CROUSE and CHEVAL Bull Soc SCHOCKAURT LAN d obst et de gynée de Par 1928 xvii 870

Lxtra amnual twin pregnancy P Jones Zentralbi f Ganaek 1028 D 2 11

Two rare cases of ectopic pregnancy if Federalis Zentralbl f Gynaek 1928 p 2834 A case of triple pregnancy complicated by fetal mon-

stro ity polyhydramnion and central placenta prævia MADREZZA Clin ostet 1928 xxx 713 The Hofstatter Cullen Hellendall sign in the diagnosis of rapture of tubul pregnancy A G Nennann and Y

CAVIGLIA Bol Soc de obst y ginec le Buenos Aires 1028 VII 186

The relation of ectopic gestation to the associated uterine changes and vaginal bleeding S II GEI r and M R MATLS Am J Obst & Gynec 1929 xvii 151

Retroversion of the gravid uterus and asthmatic crises spontaneous reduction and disappearance of the re-piratory manifestations Vorovan i Bassillos Bull Soc d'obst

et de gynéc de Par 1928 van 8 4 The nature and treatment of hyperemesis gravitarum

T HEYNEMAN Klin Wehnschr 1928 p 1813
The hi tological changes in the membranes in pre mature rupture of the membranes S SZENTCH Zentrall 1 f G nack 1928 p 2842

The chincal significance of utenne myomata S Ference Orvosi hetil 1928 p 10,8 A contribution on the malignant degeneration of myo

mata A Costa Riv ital di ginec 1928 viji 70 Errors of diagnosis with iniodol a case of cystic polypoid adenomyoma mistaken for a cancer of the uterus G Pasauso Gynécologie 1928 xxvii 598 Acute complete retention of urine and delivery of a large

Acute complete retention of trine and delivery of a large fibroma E Capecchi Clin oster 1928 xx 654 [536] A case of hydatiform mole and general synctromatosis J H Forr Bol Asoc med de Puerto Rico 1928 xx, 21 I rolonged retention of a hydatiform mole Fatcher

Bull. Soc d obst et de gynéc de Par 1028 vvii 845 The extent of cervical leucoplakia II Hoselwann

Zentralbl f Gynack 1928 p 2828

The early dignosis of cancer of the uterus by means of smears O Viana Clin oster 1928 xx 8: [536] Concerning bropsy in cancer of the uterine body Léo Bull et mêm Soc d chrurgens de Par 1928 xx 768 A danger of biopsy in cancer of the uterine body—uterine

perforation PAUCHET Bull et mêm Soc. d chirurgiens de Par 1928 xx 726

de Far 1928 xx 720
Syphilis and cancer of the uterus G Gellinory Am
J Syphilis 1920 xiu, 1
[537]

Carcinoma of the uterus after the menopause R MAMANNI Riv Ital dignee 1938 vu 577 [537]. A note upon the extination of the lumbo-aortic and superior hypogastric nerve plexuses in the neuralgass of utenne cancer J Java Rev frang de gynée, et d obst

The treatment of cancer of the cervix C O Donatoson

Radiology 1929 xil 154

The principal methods of radium therapy in cancer of the utenne cervix F CLAUSER Clin ostet 1923 xxx 816

Histologic studies of eight previously irradiated cervical carcinomata a contribution on the question of recurrences and the problem of cancer healing W. Lahu. Strahlen therapie 1928 xxx 277

Carcinoma of the fundus of the uterus following the Watkins interposition operation A Corvess Am J

Obst & Gynec. 1929 xvii, 239
A myoma a sarcoma and a carcinoma developing in the same sterus. Q. U. Newett. Am. J. Obst & Gynec. 1929

XVD 191
A case of primary polymorphous sarcoma of the uterus
with arrous metastases O SCHNEWEND Semana
med 1918 XXVV 759 [537]

Adnexal and Perinterine Conditions

Unilateral congenital absence of the tube and ovary H R LELAND Munesota Med 1929 xii 96 The torsion of healthy adness H PALCOT and A

MECRISSE Rev franc degynée et d'obst 1928 xxiii 513 An tinusual case of tubo-ovarian inguinal hernia] L Orr Glasgow M J 1929 cxi 2 [538]

The operative treatment of inflammatory tumors of the adners G Conrap Zentralbl f Gynaek 1928 p 2877
The diagnosis and treatment of tubal sterility

FORCE Clujul med 1928 it 505
Tuberculous salpingitis simulating ruptured tubal preg
nancy K A Mexer and A F LASH J Am M Ass 920

Primary careinoma of the fallonian tubes associated with tuberculosis W P CALLMAN F II SCHLETZ and C \ \frac{1}{1} HELLING Surg Gynec & Obst. 1930 xlvii, 14 [538] Dermoid cyst of the parovanium taxisted four and a half times M \frac{1}{1} MTILER Bull et m\text{fm}. Soc d chirurgean de

Par 1028 XX 709

The ovarian hormone F Species: Med Min 1928 1537 Studies in determining the nature and origin of ovarian

hpoids E Press ecker Zentralbl, f Cynack 1928 p

The relation of parity age and body weight to th number of corpora lutes in mice F C MacDowrlt FALLEY and C G MacDowrlt Inst Record, 1929 2th, 267

Artificial stimulation of corpus luteum formation V MURATA and K. ADACHE Tr jap path Soc Tokio

1928 xv1 33
Osteoplasia of the ovary I Javke and I Halp gove
Presse med Par 1928 xxxv1 1446

The influence of the administration of by ophyseal extracts and of induation of the hypophysis upon the growth of ovarian transplants. A Martholit Riv isld upner 1918 yill spirit and the control of the

A CHALFANT Pennsylvania M J 1920 NERII 331 Embryonic tumor of both ovaries E T LASTRA and D COLILLAS Bol Soc de obst y ginec de Buenos Aires 1925 vii 306

Degenerating fibroma of the overy Barbov and Darrasse Bull Soc dobst et de gynic de Par 1928

XVII 852
Seminoma of the ovary A. ALTHABE and D. COLILLAS
Bull Soc. d obst. et de gynéc. de Par. 1928. XVII 880
A cal thed dermoid cyst of a fragment of ovary scoden
tally detached and grafted to the greater omeetum. F

Nicitotion Bull Soc d ob t et de gynec de Par 1039 vvii 891 Pronounced vesical distention due to incarceration of the atrophied uterus diagnosed as a cystic o ary with in tel pedicle N Licata Clin ostet 1937 sxx 31

Malagnant and semi malagnant tumors of the ovary II C Tarzon Jr. Surg Gymee & Obst 1919 zhw 1 1 Knikenberg s tumor Boung and Condre Da So d obst et de gynée de Par 1928 xm 883 Caretnoma of the ovary after the menopause associated

Carcinoma of the ovary after the menopause associated with recurrence of uterine bleeding. A STRAC Am. J.

Obst & Gynec 1920 xvii 248
Experimental studies on injury to of purg from roenigen irradiation P Schwer Strahlentherapie 1928, [538]

Extingation of the left ovary followed by a normal pregnancy Schockaert Herroral Crouse Beyona and Crewal Bull Soc dobst et de gynéc de Par 1023 VII 870

External Genitalia

A new case of acute ulcer of the vulva M M vacutit Policiin Rome 928 xxxv see prat 1834 Uncommon tumors of the vulva and vag a Paviovay Gianvullo and Suarez B R Soc dight, et de groce

de Par 1928 xvii 8 , A new method of biological di infection of the vagna t Suoroockers and G Tenekow Zentralbi. f Gyna k

1938 p 2978
A severe costus injury Perforation of the posterior wall
of the vagina with prolap e of the small bowel E Fronte.

Zentralbl I Gynack 1928 11 2754

A contribut on to the study of cysts of the vagua 4

Rotto-Micca Policia Rome 1938 xxxv ser chir 351

Botto-Micca Policia Rome 1938 xxxv ser chir 351

Botto-Miccia Pol chin Rome 1938 xxxv sez chir 551
Vagnal cyst of traumatic ongun 1 Grey Pol cha
Rome 1928 xxxv sez prat 2322

Abdominopenneal amputation with hysiere ony for posterior cancer of the vagina J L Faure Bull, et min Soc nat de Chir 1918 liv 208

Douglas iti

Miscellaneous

The new gynecologic clinic at Leipzig and the building of gynecological clinics in general W STOECKEL Ztschr f Geburtsh u Gynael. 1928 xcm 561 The progress of teachin and pra tice in gyne olory

dunn the last four de ades B C HIRST Am J Obst

&Cynec 1929 xvii 209 Visualization of the female p lvi viscera H COHES

Med J & Rec 1929 CTVIV 130 191
The use of lipiodol in gynecology Charbonnel Péri

ani Magendie Bull So dob't et de gynée de Par 1928 2311 849

Studies upon the hemogram of Schilling in the gyne colorical field M TRETTEVERO Riv ital diginec 1928 The use of stryphon as a hæmostatic in gynecology R

Keyrschik, Wien klin Wehnschr 1928 p 1223 Gelonida anti neuralmoa as an analge ic in gynecology

M ROBECURT Med Klin 1928 P 1557
Protein therapy in gynecology G I Hibbert Am J

Obst & Gynec 1929 Till 227 Simultaneous genital and rectal prolapse 1 CAMPLIA

Bull Soc d'obst et de gyn'c de Par 1928 vvn 889 Plastic closure of an acquired defect of the vesico tannal urethral septum MUELLER Cas 1 k cesk

P 1380 Lumbar pains an I their treatment P RILLY (ynéc

et obst. 1928 XVIII 425 The treatment of acute pelvic conditions with ditonal Harschulte Zentralbl f Gynaek 1928 p 2042

The relation of appendicitis to di eases of the female genitalia C Paryot. Orvosi hetil 1928 Ivvii 7 Milk injections in the treatment of pelvic inflammatory di case R C Warking Northwest Med 1929 xxviii o

Infections of the female pelvic organs H SCHMITZ Northwest Med 1929 xxviii 65

Bull Soc d obst et de gynéc de l'ar 1928 von 883 Internal adhesions of fuetic origin involving the internal genitalia Churco Bull Soc d'obst et de gynéc de Par 1028 XVII 887

HENROTAY CROUSSE and SCHICKAFRT

Pelvic varicocele A W Pigrord J Oklahoma State M Ass 1920 XXII 31
Endometriosis & Hosoi and L H Meeker Arch

Surg 1929 xviii 63
Exploratory Japarotomy \ von Tekere Zentralb! f

Gynaek 1928 ln 2,27

The removal of a large fibroma incarcerated in the pelvis I DEVRAIGNE Bruxelle med 1928 1x ,3 Ten years experience with gynoplastic repair of old

facerations during the lying in period, with report of 1010 cases J L Burns Ohio State M J 1929 vvv 109
Sexual life and alcohol G KLATT Internat Z Nko

holi m 1928 xxxv1 197 Sterlity G L SAXONA Anti eptic 1929 TVVI 6.

The management of sterility An analysis of sixty seven uses in private practice A MATHIEU and G C cases in private practice SCHAUFFLER Northwest Med 1929 XXVIII 53

Sterilization without unsering I Surgical review R L DICKINSON J Am M Ass 1929 xcii 3 3 Chemical studies of the menstrual blood

and O WALDBAUER Ortost hetil 1028 p 010 The causes of the non coagulability of menstruil blood M VON FALKENHAUSEN and A LYRGIALIS Zentralbl f

Gynaek 1928 ln 2/39 Blood cholesterol during the menstrual and epileptic cycles F Coopall Lancet 1020 ccx 1 384

The effect of gymnastics on menstruation preliminary report I Schlesinger Zentralbl f Gynaek 1028 p.

Amenorrhora during and since the war A retrospect on the ten years following the war G TEEBREN Zentralbl f Gynaek 928 p 2966

OBSTLTRICS

Pregnancy and Its Complications

The diagno is of early pregnancy through the detection of female sex hormone in the urine C Mazer and J HIPFHAN Am J Obst & Gynec 1929 VIII 18b An outline of prenatal care C H Lrwis California & West, Med 1929 INT 108

The venous pressure in pregnancy (Suprrest Ri ital di ginec 1928 viii 64 Ophthalmotonus in pregnancy \ Carofalo Clin

ostet 1928 xtt or The cause and significance of the pigmentatio of preg

H GROSSHANN and SCHOENBERG Zt ch Gefurtsh u Gynaek 1929 xcm 734 Maturation of the smooth muscle fibers of the uterus in

Pegnancy H KEIFFFR Bruvelles mel 1928 iv 1 Dilatation of the cervix in the course of pregnancy PERY and PALOÈRE bull Soc d'obst et de gynéc d Par 1928 xvii 861

Double uterus and pregnancy D IRAETA and F lires 1929 VII 402

The diff culties of diagnosis in extra utenne pregn nes J I CABAST (Semana mel 1928 xc Fatra utenne pregnancy W D Surrit Tri State Med 1330 1920 1 00

Latra uterine pregnancy due to salpingotuberculo 1 M Mossa Clin ostet 1928 xxx 806

Interstitial pregnancy F G BRADDOCK and I Scorr Northwest Med 1929 xxviii 72 A case of bilateral tural pregnancy SCHOCKAERT VAN

CALWENBERG NISOT CROUSSE and CHEVAL Bull Soc d obst et de gynéc de Par 1928 von 879 Fytra ammal twin pregnancy P Jones Zentralbi f

Gynaek 1928 P 2711 Two rare cases of ectopic pregnancy F FEDERLIN

Zentralbl f Gynaek 1928 p 2831 A case of triple pregnancy complicated by fetal mon

strosity polyhydramnion and central placenta previa Madrizza Chn ostet 1928 xxx 713

G Madetza Chi ostet 1923 xxv 713
The Hofstatter Cullen Hellendall sign in the diagno is
of rupture of tul-al pregnancy \ G ANNANN and A
CAVICLIA Bol Soc de obst y ginec de Bueno Aires

The relation of ectop c gestation to the associated utenne changes and vaginal bleeding S H Grist and M R

MATES Am J Obst & Gynec 1929 xvii 151 Retroversion of the gravid uterus and asthmatic on es spontaneous reduction and di appearance of the re-piratory

manifestations VORON and BANSSILLON Bull Soc d obst. et de gynéc de Par 1928 xvn 8 4 The nature and treatment of hyperemesis gravidarum T HEYVEMANN Klin Wchnschr 1928 p 1813

The histological changes in the membranes in premature rupture of the membranes & SZENTCH Zentralb! f Gynack 1028 p 2842

The clinical significance of uterine myomata S FERETE

582

Orvosi hetil 1928 p 1078

A contribution on the malignant degeneration of myomata A Costa Riv ital di ginec 1928 viii 270 Errors of diagnosis with lipsodol a case of cystic polypoid

adenomyoma mistaken for a cancer of the uterus TESAURO Gynécologie 1928 xxvii 598

Acute complete retention of urine and delivery of a large fibroma E CAPECCHY Chn ostet 1928 xxx 654 [536] A case of hydatiform mole and general synctromatosis J H FONT Bol Asoc. med de Puerto Rico 1928 xxi 21 Prolonged retention of a hydatiform mole FAUGPRE Bull. Soc d'obst et de gynéc de Par 1928 xvii 843

The extent of cervical leucoplakia H Hivsermany Zentralbl f Gynaek 1928 p 2328

The early diagnosis of cancer of the uterus by means of mears O VIANA Clin ostet 1028 EXY 781 Concerning biopsy in cancer of the uterine body LEO Bull et mem Soc d chirurgiens de Par 1928 xx 768 A danger of biopsy in cancer of the utenne body-utenne

perforation PAUCHET Bull et mem Soc d chirurmens de Par 1928 xt 726

Syphilis and cancer of the uterus G GELLHORN Am J Syphilis 1929 and 1 Carcinoma of the uterus after the menopause [537]

MANANT Riv ital di ginec 1928 Vii 577 [537] A note upon the extirpation of the lumbo-sortic and superior hypogratine nerve plexuses in the neuralgias of uterine car cer J Jianu Rev franc de gynée et d'obst

The treatment of cancer of the cervix C O DONALDSON

Radiology 19 9 21 154

The principal methods of radium therapy in cancer of the uterine cervix F (LAUSER Chin ostet 1928 xxx 816

Histologic studies of eight previously irradiated cervical carcinomata, a contribution on the question of recurrences and the problem of cancer healing 'V. LAHY Strahlen

therapie 1028 Crt 277 Carcinoma of the fundus of the uterus following the Watkins interposition operation A Corvese Am I Obst & Gynec. 1929 XVII 239

A myoma a sarcoma and a carcinoma developing in the same uterus Q U NEWELL Am J Obst & Gynec 1020 ton nor

A case of primary polymorphous sarcoma of the uterus with various metastases O SCHVEIDEWIND Semana méd 1938 XXXV 759

Adnexal and Perinterine Conditions

Unilateral congenital absence of the tube and o ary H R LELAND Minnesota Med 1929 xii 96 The torsion of healthy adnexa H Parcor and A MEURISSE Rev franc de gynée et d obst 1928 xxn 513

An unusual case of tubo-ovarian inguinal hernia L ORR Glasgow M J 1929 CX1 21 The operative treatment of inflammatory tumors of the

adnera G COYRAD Zentralbi i Gynaek 1928 p 287 The diagnosis and treatment of tubal sterility Foron Clujul med 1928 ix 505

Tuberculous salpingitis simulating ruptured tubal preg nancy L A MEYER and I F LASH J Am M Ass 929

XC11 390 Primary carcinoma of the fallopian tubes associated with

tuberculosis W P CALLAHAN F II SCHILTZ and C HELLWIG Surg Gynec, & Obst 1929 xlvin 14 Dermoid cyst of the paros anum twisted four and a half times M MULLER Bull et mem Soc d chirurgiens de Par 1928 XX 799

The ovarian hormone | F Sig ERF Med Abn 1929 Studies in determining the nature and onen of ovarian

lipoids E Parissecura Zentralbl I Gypaek 1018 p

The relation of parity age and body weight to the number of corpora lutes in mice F C MacDowett I ALLEY and C G MACDOWPLL Anat Record 1929 at

Artificial stimulation of c rpus luteum formation M. MURATA and K. Abaciti. Fr. jap. path. Soc. Tokia, 1028 XV1 33

Osteoplasia of the ovary F Janua and I Halpanya Presse med Par 1928 xxxx1 1446

The influence of the admini tration of hypophyseal extracts and of radiation of the hypophy a upon the growth of ovarian transplants A MARTINOLLI Riv stall digenec 1928 v 11 307 The clinical manifestations of ovarian dysfunction S

A CHALFANT Pennsylvania M J 1920 XXX 1 332 Embryonic tumor of both ovaries E T Lestra and D COLILLAS Bol Soc de obst y ginec d Buenos Ares 1028 VII 306

Degenerating fibroma of the ovary Barrov and DARRASSE Bull Soc d'obst et de gynée de l'ar 1913

xv11 852 Seminoma of the o ary A ALTHABE and D COLILLAS Bull Soc d obst et de gynéc de l'ar 1928 xvi 889 A calcified dermoid eyst of a fragment of overy acciden tally detached and grafted to the greater omentum L. Nicholson Bull Soc d obst. et de gynéc de l'ar 1925

Pronounced vesical distention du to incarceration of the atrophied uterus diagnosed as a cystic overy with twisted pedicle N Licara Cim ostet 1928 xtx 731
Malignant and semi malignant tumors of the o ary H

C TAYLOR JR Surg Gynec & Obst 1929 xl 10 224 Krukenberg's tumor Boung and Cornier Bull Soc.

d obst et de gynéc de Par 1928 zvu 883 Carcinoma of the ovary after the menopause a occated with recurrence of uterine bleeding A Strates Am J

Obst & Gynec 1929 xvii 248 Experimental studies on injury to offspring from roentgen irradiation P SCHUGT Strahlentherap e 1928

TT5111 546 Exturpation of the left o ary followed by a normal pregnancy SCHOCKAERT HEVEOTAY CROLS E. BROTHA

and CHEVAL Bull Soc d'obst et de gynéc de Par 1028 XVII 879

External Genitalia

A new case of acute ulcer of the vulva M MONACELLI Policha Rome 1928 xxxv sez prat 1894 Uncommon tumors of the vul a and agina PAVLOVSEY GIANNULIO and SUAREZ Bull Soc dobst et de gynée.

de Par 1928 xvu 883 A new method of b ological d sinfection of the vagina 1 Suproper Eward G Tenanow Zentralbi I Cynaek

1028 p 2978 A severe costus injury Perforat; n of the po terior wall of the vaging with prolapse of the small bowel L. I roures

Zentralbl f Gynaek 1928 lu 2754 A contribution to the study of cysts of the sagina Borro-Micra Policin Rome 19 8 rate see chir 581 Vaginal cysts of traumatic origin A Srix Policin

Rome, 1928 xxx sez prat 2322 Abdominoperin al amputation with hysterectomy for sostenor cancer of the agina J L FAURE Bull et mem

Soc nat de Chir tgas lie 1208

Labor and Its Complications

Emenences with pernoction in obstetrical twilight sleep F Voor Vonatsschr f Geburtsh u Gypaek 1928 XXX. 70 A O ROMET Sypergistic analgesia in obstetrics

Bo tsoc med de Puerto Rico 1928 XVI 25 Analgesia in obstetrics by the Gwathmey synergistic

method C E Hent Northwest Med 1020 xxviii 82 Anasthesia in obstetrics W J Blevins California &

Rest Med 1020 XXX 106 Labor under cervical anaesthe ia H Hireson Narkose

1 Anaesth 1028 1 480 Rapid labor under spinal anaesthesia Duriot, Bull Soc.

dobst et de gynéc de Par 1928 xun 871 The role of posture in obstetrics I JARCHO Surg Cypec & Obst 1929 Thum 257

Acceleration of labor by Delmas method Laquière Bull Soc dobst et de gynéc de l'ar 1928 xvii 841 The medical induction of labor DE GUCHTENEERE and

SCHOCKAERT Bull Soc d'obst et de gynéc de Par 1928

The calcium in contraction and in inertia of the uterus G ARRIZZESE Riv ital di ginec 1928 viii 77 Annular dystocia D A Rojas Bull Soc d'obst et de

zynec de Par 1928 tvu 897

Premature labor produced in cases of dystocia Hatch Gynéc et obst 1928 volu 392

Induced premature labor in sixty five cases of contracted Pelvis \ Lanuary Gynéc et obst 1928 Trut 401 [541] The results of premature induced labor in the contracted pthis S A GAMMELTOFT Cynéc et ob t 1928 x4mi

Pentoneal adhesions of the gravid uterus during labor k Meyernore Ztschr f Geburtsh u Gynaek 1029

The coccyy as an obstruction to labor Bleeding gastric uleer as cause of death following labor S HECKSCHER

Zentrall I f Gynaek 1928 p 2886 Some cases of himanual dilatation under chloroform FALCERE Bull Soc dobst et de gynéc de Par 1928 IVD S t

Our experience with the Kjelland forceps K SCHWENER Monatsschr f Geburtsch u Gynaek 1928 Ixxx 82

A modification of the classic forceps and its application im J Obst & Gynec 1929 X111 262 The application of forceps at the superior strait SCHOCK

AERT VAN CAUNENBERG and HENROTAY Bull 5oc dob t et de gynéc de Par 1928 vou 881

Transverse presentation and version during labor llmsch Deutsche med Wehnschr 1928 137

A new device for performing median episiotomy Winnage. Im J Obst & Gynec 1929 TVII 203 Fpi iotomy with modified operative technique

BLEVENS Am J Obst & Gynec 1929 v 11 19 Lot casarean section or neglected shoulder presenta tion Hotel and Janter Bull Soc dobst et de gynée

d Pat 1029 Xtil 841 amniotic infection dystocia of the cervis hysterectomy without preliminary casarein section with d livery of a

lyinginfant latgers Villar and Gattret Bull Soc dobst et de gynéc de Par 1928 xvii 855 Hysterectomy a masse for the Bandl Frommel syndrome

in a patient with o teomalacia on the fourth day of labor James Larribers and Sessel Bull Soc d'obst et de 8)706c de Par 1928 x 11 844

A schematic illustration of the partial symphysiotomy of Arta e M M Torres Semana med 1928 xx v 1344 Embryotomy upon the living fetus R Mestre Bull Soc d obst et de gynéc de Par 1928 zvii 890

Fmbry otomy on the living fetus or risking of the mother s hife J B GONZALEZ Bull Soc d'obst et de gynée de Par 19 8 vvii 886 Rev mcd Lat Am 1928 vi Decapitation after birth of the head II II SACUS Zentralbl f Gynaek 1928 p 2981

Uterine rupture in the course of labor HENROTAY PASTIFLS and SCHOCKAERT Bull Soc d obst et de gyn'c de Par 1928 WH 87,

A case of complete spontaneous rupture of the uterus occurring during the course of labor D 1 Roiss Rev méd Lat Am 1928 tiv 3216

A case of spina bifida occults and rupture of the sym physis of the pubis \ Rizzacasa Clin ostet 1028 xxx

Second preemancy at thirty seven years expulsion of the complete ovum at term infant recently deal not macerated weighing about 3 5 kilograms LE Lorier and MIGNON Bull Soc d obst et de gynec de Par 1928 vvii

825 An umbilical cord tie H W Davis J Kansas W Soc 1020 XXX 46 Hamorrhage during labor medical treatment VORON

and CHAVENT Bull Soc dol st et de gypéc de l'ar 1928 Thii 860 The use of a modified Henckel method in twelve ca es of

nostnartum hæmorrhage Lappont and Larribere Bull dolist et de gynec de Par 1028 xvn 826

Late postpartum hamorrhages and ations for their t eatment by immediate hysterectomy \ Colvei aire L PORTES and I DICONNET (ynic et chet v m a o Bull Soc lobst et de gyn c de lar 818 IIVF (541) Traumatic paralysis of the mother following lal or H Scott Z Zentralbl f Cynaek 1028 n 2832

Puerperium and Its Complications

Experimental studies on the physiology and pharma

cology of the uterine muscle during the puerperium. H KNALS Arch f exper I ath u Pharmakol 1928 CXXXII

Menstruation during the nursing period O Vertis Orvosi hetil 1928 p 10 1 Wernicke's aph's ia during the puerpenum \ J J
Ctiros and L Rosenwaser Bol Soc de obst y ginec

de Buenos Aire 1928 11 400 Postpartum placental retention M METZGER Bull

Soc d'obst et de gynéc de l'ar 1928 xui 810 The value of the calcium potassium constant during the

normal and pathological puerperium S MARTINES and DE LAURETIS Riv ital di ginec 1928 viii 21 Cri es of eclamp ia with marked albuminuria not dis appearing until the fourth month postpartum Voron and

BANSSILLON Bull Soc d of t et de gynéc de Par 1928 x # 874 Streptococcic infection and preparations of ergot Zentralbl f Gynael, 1928 p 2002 LOURO

The glycerin treatment of puerperal sepsis 20

McSWINEY Brit M I 1020 Grave puerperal infections cured by hysterectomy ALTEFAGE Bull Soc d'obst et le gynée de Par 102

XVII 723 15421 Abdominal hysterectoms for puerperal enticamia CAMEN I de chir et Ann Soc belge de chir 1928 p 1 5 The simultaneous occurrence of infantile paraly is in

mother and infant J B WEAVER J Kansas VI Soc 1020 XXT 55 A case of ulcerative endocarditis of puerperal origin L

MACDONALD and G R MACNAR Bot M J 1929 1 348

Endocrine therapy of the vomiting of pregnancy K MATOLESY Orvosi hetal. 1928 p 1023 Intra uterine arrhythmia during pregnancy C HOLTER MANY Zentraibi, f Gynaek 1928 p 2743 Exp riences in the management of pregnancy com

plicated by heart disease H E B PARDEZ Am J Obst & Gynec 1920 xvii 233 Appendicitis during pregnancy W KARFERLEIN 1027 Dissertation Erlanden

Anamia in late pregnancy E C Lyon Jr J Am M Ass roz8 xcu rr Severe anxima of pregnancy and the puerpenum EVANS Lancet 1929 CCXVI, 14 [539]

Syphilis and pregnancy H KATZ Wien klin Wchnschr 1928 p 1192 Early syphilitic lesions of the cervit C N Machovald

I Am M Ass 1920 xcu 622 The treatment of syphilis in pregnancy G Danowski

Therap d Gegenw 1028 lxix 400 Severe toxemia of pregnancy with jaundice STEIN and M L LEVENTHAL Am I Obst & Gynee 1020 XVII 241

Liver extract in the toxemia of pregnancy II A MILLER and D B MARTINEZ I Am M Ass 1020 xcu

Two cases of necross of the renal cortex in toxicosis of 1 Westman Acta obst et gynec Scand ргеопласу [539] 1928 VII 235 Calcernia in the course of normal and pathological pregnancy and particularly in convulsive eclampsia Wopon Bull Soc d'obst et de gynée de Par 1928 IVII

Studies upon the pathogenic mechanism of eclampsia VORON PIGEAUD and THIRRS Bull Soc dobst et de gynéc de Par 1028 xvii 870

E KRIEGER Zentralbl f Felampsia and fever Gynaek 1928 p 2714 Some cases of eclampsia treated by somrufene LAFFONT Houel and Larribère Bull Soc d'obst et de gynéc de

Par 1028 XVII 835 The results of the treatment of eclampsia P Winz Zentralbl f Gynaek 1928 lu 2690

Two cases of renal decapsulation for eclamptic anuma I LIEBMANN Orvosi hetil 1928 p 1158 Right hæmatosalping two ted upon its pedicle compli

cating pregnancy at the seventh month G DELLI COLLI Clin ostet 1028 xxx 812 The treatment of cysts of the ovary recognized at the end of pregnancy Browna Bull Soc d obst. et de gynéc

de Par 1928 xvii 881 A case of pregnancy at term with incarcerated fibroma R d ERNST Bull. Soc, d obst et de gynéc de Par 1928

xvii 882 Multiple uterine fibromyomata and pregnancy A GLIROY and R. BERNASCONI Bull So dobst et de gynéc de Par 1928 xvn 891

Cancer of the cervix in the pregnant uterus CONDAMIN VORON and MOLEN Bull Soc d'obst et de gynée de Par 1928 XVII 863 Cancer of the cervix in pregnancy treatment by radium

R CONDAMN Bull Soc. d'obst et de gynée de Par 1928 Xvii 862

Cancer of the cervix of the gra id uterus the mother or child' Solution of the problem by radium. R CONDAMIN

Gynécologie 1928 xvvu, 577 Cæsarean section in a case of severe laryngeal and pul monary tuberculosis L kéntes Orvosi hetil 1928 p 1082

GREENHILL and B BLOOK J Am VI 188 1928 XXII Postpartum hamorrhage occurring late Voxov and MOULINIER Bull Soc d'obst et de gynée de Par 1923

The treatment of habitual abortion and habitual fetal death M JOACQUEM Anti eptic 1929 xxvi 104 Habitual death of the fetus prematurely induced labor living child GAUCHERAND Bull Soc dobst et de gynec

de Par 1928 vvii 872 The psychiatric and neurological indication for the interruption of pregnancy E Meyer Therap d. Gegenw 1928 Lut 26

One thousand induced abortions J Kallinikorr Monatsschr f Geburtsh. u Gynaek 1928 lxxx 100 Induced abortion of extra utenne pregnancy from the medicolegal viewpoint P CARLENT Chr o tet 1928

The course of infected abortion with drainage according to Zangemeister L. KRIEGER. Zentralbl, I Gynack

Cerebral air embolism following an attempt at abortion H vov Hoessley Muenchen med Wehnschr 19 8

What are the permissible limits of obstetrical practice outside of a clinic with a living child or with a miscar mage? L. FRAENLEL Deutsche med Wchnschr 19 8 p. 1619

Utenne perforation occurring in the course of curetta for enminal abortion produced with an injection of tineful of sochne P Baland Bull Soc. dobst et de gynée le

Par 1028 TVI 851 Acute pentonitis secondary to criminal abortion M BRES and C V SUAREZ Bull Soc d obst et de genéc de Par 1928 xv21 889

The relation between the birth rate decreas and abortions R. Evgelsmany Verhandl d l in ernat Kong Sex Forschg 1928 1 83 The diagnosis of fetal deformities in ulere F H FALLS

Am J Obst & Gynec 1928 xvi 8 r [539]
The etiology of intra uterine ossincation of tle fetus A HIRSCHBERG Zentralbl f Gynael 1928 p 2/16

The site of the pla enta in the human spe ies ORSINI Ray ital giner 1928 via 19 The problem of the cervical placenta F STEGERT

Ztschr f Geburtsh y Gynael, 1028 xcm 744 M YAMA Morphological studies of the placental fat GUCKI and M KOYAYA Trans pap path, Soc Tokio 1028 XV1 32

Uteroplacental apoplexy R J HEFFERNAN \ Eng land J Med 1929 cc 286 A case of uteroplac ntal apoplety 1 J Guixov Bull

Soc d'ob t et de gynée de Par 1928 xvu 888 Two cases of uteroplacental apoplery hysterectomy death Lafront Hours and James Bull Soc dobst. et de gynéc de Par 1928 x 11 833

Placental inflammation and fet I sepsis F WOHLWILL Ve handl d deutsch path Gesellsch. 928 p 531

A roentgenographic study of placental infarcts Thoms Am J Obst & Gynec 1929 xvii 176 Further experimental observations on the etiology of

accidental hæmorrhage and placental infarction I J BROWNE and G H D DDS J Obst & Gynac Lmp 1028 txxv 661 Caesarean ope ation for placenta præ ia E CABLYES

and P Hotel. Bull Soc. dobst. et de gynec. de Par 1028 XVII 848

The sign of Hone and Zorn in pregnancy F C Da VIIIA Polichin Rome 1928 xxxv tez prat 2325

The area tolerance test an index of renal function F S kng Arch Int Med 1928 xln 877 Renal function in unilateral disorders of the kidney

E B MAYRA But M I 1028 H 1028 specular cause for hydronephrosis - unusual course of themsenorvena cava II KENGYEL Ztschr f urol Chir 1928 XXV 4X

The results of twelve operations for the painful syndrome

of hydronephrosis The preponderant rôle of abnormal artenes B FEY Arch urol de la clin de Necker 1928 5451 Obstructive hydro-ureteral angularity with hydro-

rephresis in children surgical treatment F HINMAN trch Surg 1929 XVIII 21 Clucal and experimental studies on the healing of wound

of the renal pelvis and the ureter Z KAIRIS and S PERL Many Ztschr I urol Chir 1927 xxi 639 Therapeutic ligature of the vascular zone of the kidney

6 MS10 Arch ital di urol 1928 iv 548 Morable kidney and hæmaturia I I ANSINI Policlin

Rome 1928 xxxv sez chir 514 The so-called essential hamaturia (renal hæmorrhage from a small focus) R HUECKEL Zischr f urol Chir

1928 XXV 242 Acute hamatogenous infection of the kidney W Lin DER Am J Surg 1929 11 175

The sur scal treatment of nephritis R F Van Duzen In State Vied J 1929 1 87

A clinical contribution to the study of renal tuberculo is I BARCAROLI Arch ital di chir 1928 XXII 357

The rapid formation of renal calculus R C GRAVES \ Lagland J Med 1929 cc 421 False localization of the side of a renal stone (H

TEIST Zentralbl f Chir 1928 p 2693 Calculosis in an ectopic presacral kidney G MILLLE

Ann ital dichir 1928 vii 1062 Pyel lithotomy drainage nephrotomy persistent cor ticocalyceal fistula E BEER Ann Surg 1929 lxxxix

Di turbances in the evacuation of the kidney pelvis and the recurrence of calcult LEGUEU LEY and CADAN irch uro! de la clin de Necker 1928 vi 1

The syndrome of intestinal obstruction in left lumbar abscess due to rupture of a calculous hydronephrosi S Les was Arch ital drurol 1928 iv 5 7

A solitary cyst of the kidney J K ORMOND Am J O g 1029 VI 241

A mixed tumor of the kidney in an adult H S BAICHER and P M TLIMER South M J 1929 v. n. 188 Mixed epithelioma of the kidney I Massov and C

SHARD Ann danat path 1928 v 823 Lapilloma of the renal pelvis L S Judo Surg Clin im 1929 1x 11

litempt at experimental production of perirenal hamatomata P SANNIZZARI Arch ital di urol 1928

Spin le celled sarcoma of the kidney in adults. H L REETSCHAER and H S RANDOLPH present 1073 Ann Surg 1028

15461 Radiation treatment of certain kidney d sorder SHAND W L COSTOLOR and O \ MELAND Califor

Bud Wet Med 1919 xxx 93 Resection of the kidney with the report of a case \]

The effect of denervation of the renal artery on the functi n of the kidney S Karasawa Mitt d med G s 20 Osala 1928 2XVII 44

I new method of paravertebral anaesthe in for ki iney eperations Report of thirty three cases R B HEALI E] ltol 1929 ttl 2

Nephrectomy under spinal anasthesia with particular reference to nephrectomy in renal tuberculosis IFCA | Urol 1929 xx1 61 15471 Ephedrine-controlled spinal anæsthesia Y Ocker BLAD and T G DILLON J Urol 1929 XXI / [547

A case of abnormal ending of a double ureter 1 101 ADLER RACZ Zischr f urol Chir 1928 xxv 303

Ureterovenous ana tomo is and its effects particularly with reference to the production of uramia G SERRA

Arch ital di chir 1028 xxii 137 Retro rade uretero raphy of a ureterovaginal fistula CHEVAS U Bull et mém Soc nat de chir 1028 liv 1168 Retrograde ureterography in a case of ureteral oblitera tion producing hydron phrosi in a patient who had pre

viously undergone bysterectomy M Carrassa Bull et m m Soc nat le chir 1028 liv 1212 Ureteral activity in some pathological condition

studied by the graphic manometric method. If R TRAFF Arch Surg 1928 xvii 968 1548 A rare anomaly of the ureter F R HANGON I Urol

1020 XX1 123 Anomalies and obstructions of the ureters F CLARA Med J Australia 1929 1 13

A implifed technique for the removal of calculi in the pel ic portion of the ureter D N EISENDRATH Surg Gynec & Obst | 020 xlviii 245 A ureteral stump (non tuberculous) as a source of pyuria Case report J S READ J Urol 1929 vvi 103

Bladder Urethra and Penis

Bladder pressure and volume leterminations F II REDLWILL California & West Med 1929 YXX 121 Presentation of a case of bladder herria C 5 I rvy Urol 1929 xx1 2,3 (y titis T J Mcbee Internat J Med & Surg 1929

xlii 71 I case of vesical syphilis U Ishardi Semana med

1028 TTXV 128/ I compoma in a di crticulum of the bladder H \ CHAMBERLE N England J Med 1923 cc 423

Malionant disease in diverticula of the bladder HUNT I Urol 1020 XXI I (553) The treatment of malignant tumors of the blad ler with

special refe ence to surgical diathermy W. L. STEVENS California & We t Med 1920 xxx 20 A modified ureteral catheter for bladder drainage G T

SPENCER J Med Soc N Jersey 1920 XXVI 149
Keeping the patient dry after esical operations S W MORHEAD Lennsyl ania M J 1928 TYTH 155 (550)

The influence of local general pinal and regional and thesia upon the ureterove ical refl x M PANONE Ar h stal di urol 1925 iv 533 Urethral diverticula and urethral roentgenography

L I ECI Raliol med 1928 xv 1004

Insuperable urethral steno is and complete retention 5 I USSANA Arch stal di urol 1928 iv 520

Reconstruction of the urethral phincier of the female with the aid of the rectu internus muscle of the thigh MADIER and GREGOIRE Bull et mem Soc nat de chir 1929 liv 208

Two unu ual penile injuries W S I HRICH | Urol 1020 XXI 210

I rim iry tuberculo i of the peni W I go vrz and K W Mckay South M & S 1929 vet 92

Genital Organs

Some prof lem connected with benign enlargement of the prostate C \ R \trest Brit M J 1929 1 130

The prognosis of cardiopathies during the perpenum D CONDILI Chin ostet 1928 xxx 846 Puerperal pelvic phlebitis with multiple emboli Houel and I acror Bull Soc dolst et de gynéc de Par 1928

Postpartum uteropel : phlebitis venous ligatu e J LERY J MANGE and R BOURSIES Bull Soc dobst et

de gynce de Par 1928 vu 8,8 Lucrperal salpingitis and extra uterine pregnancy

DEJARDIN Bull Sic d'obst et de gynéc de Par 1928 xv11 878 Puerperal morbidity and mortality P B BLAND Med J & Rec 1020 cvn 12.

Newborn

Pediatrics and the care of the healthy child (For nurses) E Nobet, C PIRQUET II BURNER and P

The care of the umbilicus in the newborn | I PRICYFSL Orvosképzés 1928 xviii 404

Intracranial injury due to labor a clinical and patho logical study 1 I ADDOCK South M I 1020 xxii A new case of dep essed fracture of the frontal bone by

the sacral p omontory R SCHOCKAERT Bruxelles med 1928 17 74 Pemphiaus neonatorum I G Collins and H Camp BELL Lancet 1020 ccvvi 227

Agenesis of the abdominal mu cles in a newborn child with hereditary lues BRINDEAU and JACQUET boc dob t et de gynéc de l'ar 1028 xvii 826

A case of hemimelia ABUREL Bull Soc d obst et de gynéc de Par 1928 von 826 A promelic monster E FRONTICELLI Clin ostet 1028

I renatal prevention of potential hamorrhagic disease of the newborn I V Augelmass and J E Trirsch J Am

M Ass 1020 xcu 531 Hamorrhages of the newborn and a contribution to their tudy F A DELUCA Rev med Lat Am 1928 xiv 3280

Id opathic hamorrhage in the ne vborn H GEARY Brit M J 1929 1 248 Several cases of meningeal hamorrhage of the newborn following spontaneous delivery Andreonias and Den VILLEE Bull Soc d'obst et de gynée de Par 1928 xvii [542]

The true causes of fatal meningeal hamorrhage in the The true causes or ratar members H Pigeaud Gynec et obst 1928 vviu 334
[542]

Tetany in infants a comparison of various agents used in treatment H BAKWIN R M BAKWIN and G Gorr SCHALL 1m J Dis Child 19 9 xxxvii 311
1 case of ler ot's disea e appearing five days after birth P Balano Bull Soc d'obst et de gynéc de Par

1028 X 11 850

GENITO-URINARY SURGERY

Adrenal Lidney and Ureter Obstruction of the upper portion of the urmary tract

W WALTERS Su g Chin \ Am 1920 1x 16 Adrenal virilism F Ricci Polichia Rome 1928 vvv.

sez prat. 1881 Adenoma of the adrenal corter J B Hick \ Eng [514] land J Med 1928 excit 1140

Miscellaneous

Midwifery notes JELLETT \ Zealand M J 10 0 XXVIII 426 The infancy of midwifery D G MADILL Insh J M

Sc. 1929 6 s 55 Outlines for the midwife examination with 1550 que tions mai ly of stetrical L von Shuffert 1928 Muen chen Bergmann

Stati ties of obstetrical operations G WINTER Zen tralbl f Gynaek 1928 lu 2497 A critical study of obstetrical statistics particularly

those of operative obstetnes A KASTEN Arch f a z Hyg 1928 m 45 Roentgenological measurements of the pelvis P Scitt.

MACHER Zentralbl f Gynaek 1928 lu 2 58 Brief considerations concerning the genesis of the am motic fluid G Fusco Ras egna internaz di clin e terap 1929 IX 814

The medicolegal s gn ficance of the corpus luteum of pregnancy H KA72 Muenchen med Wchnschr 1928

DXX 1201 The value of studies of isolated uterine muscle in inter preting the behavior in two H Knais Zentralbl I Gynaek 1928 lu 2566

The relation between the gravid and puerperal uterus L PUCCIONI, Riv ital diginec 1928 vin 1

The value of bilirubin and diastase determinations dur ing pregnancy labor and the puerpenum W Schmidt Zentralbl f Gynack 1928 p 2434

The treatment of d minished secretion of milk by dia thermy P PENSA Riv ital diginec, 1028 vin 113

Acute intoxication from a subcutaneous injection of ergot A LUTIER Presse med Par 928 xxxvi 1436 The significance of the birth weight in bodily develop A biological and experimental study A BLUHN

Arch f soz Hvg 1928 in 425 Does feeding with cholesterm and lecithin influ nce the sex percentages of rabbits? C A MIRBT Z indukt Abstammungslehre 1928 alsın 2 9

A human embryo of a hteen primitive somites G POLITZER Z Anat 1928 lxxxvii 674 The numbe location and make up of the primitive

germ cells in a human embryo of twenty six or twenty s ven primiti e somites G Politzer Z Anat 1928 lixevii 766

A series of monsters E J PARRY Lancet 1929 CC. VI 286

Contribution to the study of natural infant mortality M KERNBACH Clujul med 1928 1x 430 The increased maternal mortality rate for 1927 Gorno

N Zealand M J 1929 xxviii 430
Birth rate decline and sexual morale J Work Ver handl d 2 internat Kong Sex forschg 1928 iv 207

Without the responsibility of reproduction there can be no regulation H Sellheim Zentrali I f Gynack 1928 D 2 62

Neuroblastoma of the adrenal in infancy with case report A L. McFvers Illinois M J 1929 lv 107 Adrenalectomy and gangrene of the extremities LERICHE Bull et mem Soc nat de chi 1928 liv 1231

I roentgenological contribution to the d a nosis of peri renal absce s L Fect Arch ital di urol 1928 iv 503

Pennephritic absces es in a child J M Jinor and B E Sas Semana med 1928 xxxv 1229

The urea tolerance test an index of renal function \(\Gamma \) S Kog Arch Int Med 1928 thi 877

Renal function in unilateral disorders of the Lidney E B Wayes But M J 1928 11 1028 specular cause for hydronephro is -unusual course of

theufenoryena cava II KENGYEL Zischr f urol Chir The results of t elve operations for the painful syndrome

of hydronephrosis The preponderant rôle of abnormal atenes B FEY Arch urol de la clin de Necker 1928

Obstructive hydro-ureteral angularity with hydroexphroses in children surgical treatment F HINMAN Arch Surg 1929 XVIII 21 Clinical and experimental studies on the healing of wounds

of the renal pelvis and the ureter Z KATRIS and S PERL FUN Ztschr f urol Chir 1927 Ttl 639 Therapeutic ligature of the vascular zone of the kidney

C Name Arch ital di urol 1928 iv 548
Movable kidney and hæmaturia L LANSINI Policlin

Rome 1928 xxvv sez chir 514

The so-called essential hæmaturia (renal hæmorrhage from a small focus) R HUECKEL Ztschr f urol Chir 1018 XIV 242 Acute hæmatogenous infection of the kidney W Lin

DER Am J Surg 1929 V1 175 The surgical treatment of nephritis R F VAN DUZEN

In State Med J 1929 1 87 thincal contribution to the study of renal tuberculo is

Buccarott Arch ital dichir 1928 xxii 33 The rapid formation of renal calculus R C GRAVES

\ England J \fed 1929 cc 421 halse localization of the side of a renal stone G H Frist Zentralbl f Chir 1928 p 2693

Calculos: in an ectopic presacral kidney G MILLUL ian ital di chir 1928 vii 1062 Pyelolithotomy drainage nephrotomy persistent cor

teocal-ceal fistula F BEER Ann Surg 1929 lxxxi Disturbances in the evacuation of the kidney pelvis and the recurrence of calculi Leguet Fey and Coldan lich urol de la clin de Vecker 1928 vi

The syndrome of intestinal obstruction in left lumbar abscess due to rupture of a calculous hydronephrosis S Lissana Arch ital di urol 1928 1 517 A solitary cyst of the kidney J K Ormond Am J

Surg 1929 11 241 I mixed tumor of the kidney in an adult H S Tautone aumor of the kidney in an agust 188 Mired epithelioma of the kidney P Masson and C

Sixten Ann danat path 1928 v 825 Papilloma of the renal pelvis L S June Su , Clin / | Im 1010 Ft 11

ttempts at experimental production of pe irenal hematomata I SAN AZZARI Arch ital ci urol 928

pundle-celled sarcoma of the kidney in adults H L REFERENCES and H S RANDOLIH Ann Surg 928 larrym 1033 15461

Rad ation treatment of certain kidney diso d is SHAND II COSTOLON and O NILLAND (alifor

Resection of the Lidney with the report of a cas

The effect of deneration of the renal artery on the function of the kilney S KARA awa Mitt d med (e 14 Ocal a 1928 XXVII 44 hew method of para ertel ral anasthesis for kidney

operations Report of thirty three ca es R B HENLINE | Lrol 1929 Ttl 2

Sephrectomy under pinal anæsthesia with particular reference to nephrectomy in renal tuberculosis IECK | Urol 1929 XXI 61 [547] Phedrine-controlled rinal and the ia N I OCKER BLAD and T G DILLON I Urol 1929 XX1 7/ [547 [547]

A case of abnormal ending of a double ureter 1 101

ADLER RACZ Ztschr f urol Chir 19 8 xxv 303 Ureterovenous anastomo i and its effects particularly with reference to the production of uramia G SERRA

Arch ital dichir 1928 viii 13/ Retrogra le ureterography of a ureterova, inal f stula M CHEVAS t. Bull et mem Soc nat de chir 1928 by 1168

ketrograde uretero raphy in a case of ureteral oblitera tion producing hydronephrosi in a patient vho had pre viously un lergone hysterectomy. M. Chrivassi, Bull et m'm Soc nat de chi 1928 liv 12 2 Ureteral activity in some pathological condition

studied by the graphic manometric method H R TRAFF NER Ar h Surg 1925 TAN 908 15481 A rare anomaly of the ureter I R HANLON I Urol

1020 111 123 Anomalies and obstructions of the ureters F CLARK

Med I Australia 1929 1 135 A simplified technique for the removal of calculi in the pel ic portion of the ureter D N I ISLNDRATH Surg

ynec & Obst 1929 vl 111 245 A ureteral stump (non tuberculous) as a source of pyuna Case report J S READ J Urol 1929 vv 193

Bladder Urethra and Penis

Bladder pressure and volume determinations REDEWILL California & West Med 1929 XXX 121 Presentation of a ca e of bladder hernia C. S. Lrvs.

Urol 1929 v 1 2 3 Cystitis T J McBee Internat J Med & Surg 1929

xln 7t A ca e of vesical syphilis U ISVARDI Semana méd 1028 TTTV 128

Leiomyoma in a diverticulum of the bladder CHAMBERLIN \ England | Med 929 cc 423 Mahonant disease in diverticula of the bladder

HUNT I Urol 1022 XXI 1 [553] The treatment of malignant tumors of the blad! r with pecial refe ence to sur ical diathermy W I STEVENS

California & West Met 1929 xxx 29 I modified ureteral catheter for bla lder drainage G T SIENCER J Med Soc \ Jersey 1929 7711 149

Keeping the patient dry after ve ical operations S W. M. RHEAD Pennsyl ania M J 1928 vvii 155 | 550 The influence of local general pinal and regional and thesia upon the ureterove ital reflex M PAIONE

Ar h stal di urol 1928 iv 33 Urethral h erti ula and urethral roentgenography I Fect Radiol med 1928 tv 1001

Insuperable urethral steno is and complete retention

S I Losana Arch ital di u ol 1928 in 26 Reconstruction of the ureth al splincter of the female with the aid of the rectus internus muscle of the thigh

Mai ier and Cregoire Bull et mem boc nat de chir 1028 hv 1208 Two unu ual penile injuries W S Firrich J Urol Q2Q XX1 230

I rimary tuberculosis of the penis W I Re viz and L W Michay South W & S 1929 xel 92

Genital Organs

Some prol lems connected 1th benign enlargement of the prostate C 1 K Vircii Brit M J 1929 1 130

XL11 130

Posterior arethroscopy in the diagnosis and treatment of chronic prostatitis P FLANDRIN Arch urol de la chin de Secker 1928 vi 16c An eff ctive method of hypogastric drainage of the blad

der in prostatectomy & B Sigurra Arch ital di urol 1018 11 . 0 Bladder dysfunction following prostatic abscess R L

CUMMING J Am MI Ass 1929 REII 128

Prostatic abscess A Perensov J Am M As 1929 Problems in prostatic surgery H G Bigbee Mel J & Rec 1929 CXXIX 143 buprapubic prostatectomy G R LIVERMORE South

1 1929 CM 154 How should one care for the prostatic? Taxt Bruxelles méd 1028 iv 8

A hamostatic bag for use after prostatectomy HIGGINS Med J & Rec 1920 CTUT 154 The control of hamorrhage following suprapulse

pro tatectomy by means of a compression clamp and bag with a sound for introduction of same H G GREDITZER J Urol 1929 TXI 253 The control of hamorrhage in suprapuble prostatectoms

I L DECOURCY and C I McDEVITT I Med Con cinnati 1929 15 576

Vaginalitis (tunica vaginalis testis) J A Lorez Med J & Rec 1929 COM 151 Torsion of the spermatic cord O CANTELWO Ann. stal di chir 928 vii 1245

Torsion of the left spermatic cord (intravaginal volvulus of the testis) with very ambiguous symptoms A Morcher Bull et m'm Soc nat de chir 1928 In

The dynamics of the germ plasm GREIL Anat Inz 1028 Ixvi Erg H A case of tran verse inguinal ectopy of the testis. C

Siciliani Rassegna internaz di clin e terap 1023 in

In undescend d testicle in an unusual position CHRISTIAN Indian VI Gaz 1929 In: 8

Torsion of an intra abdominal testis S WALLE STELL J Urol 1929 XXI 279 Walignant und scended testi le] \ Bowes \ En. land J Med 1929 cc 418

Suppurative orchitis M F CAMPBELL Med I & Rec 1929 CXXXX 147 Seminoma of the testis G Mazzartha Arch. ital di

chir 1928 XXII 419 The treatment of teratoid tumors of the testis with radium and the roentgen ray A L DEAN JR J Los 1929 xxi 83

Sterilization vithout unsering I Surgical review R L Dicktysos J Am M 148 1929 Icil 3 3.

Miscellaneous

Yea book of urology and allied subjects. Also bibhographic index of the Zeitschrift fuer urolog schech rurgie and continuation of the Kollmann Jacoby urological Year book A vov Lichten BERG and C Posver 1928 Berlin Springer

The sedimentation test in urology O I Surryore Ztschr f Urol 1928 ren 835 Two cases of unnary extravasation A Riter V hig

land | Wed 1929 er 420
Infections of the urinary tract W S Pron Wed. J & Rec 1029 CTUX 155

Unnary tuberculo is H C Boxros Jr Surg Chn N 1m 1929 tx 161

The oxidase reaction in the laboratory diagnoss of gonorrheea I N O Paice Bnt M I 1020 1 100 Studies upon the cutaneous reaction of the gonococcic

toun in gonorthesa A Dewocuy and F Becoist Bull et m m Soc mid d hop de Par 1938 xliv 1608 Clinical application of urinary antisepsis H R F WALTHER South M J 1929 XXII 161

Some distant cysts of unnary bilharma disease and the Yray A AMPPER Radiol med 1928 X1 1023

Diathermy in some prolomical instances C kousches Illinois VI J 1929 lv 11

SURGERY OF THE BONES, JOINTS MUSCLES, TENDONS

Conditions of the Bones Joints Muscles Tendons Etc

Fatal injury in a peculiar accident LANGE Zentralbl. f Chir 1928 p 2320 Congenital alterations of the skeleton D TARTAGLE

Radiol med 1028 to 1065 Bony deformities of particular type I BABONNETS and

P LONGUEAU Bull et mem. Soc med d hop de Par 1028 xliv 1556 Deformity in infantile paralysis its prevention and correction W. R. MacALSLA D. N. England J. Med. 1020

15521 cc 18 An error poliomyelitis a study of the acute stage with occial reference to the early diagnosis and t eatment R L Diveres | Bone & Joint Surg 1929 m 100 [552]

evere r. kets with dyschondroplasia? B F Myeas and St J D Buxton I roc Roy Soc Med Lond 1929 399 The treatment of rickets by irradiated sterules P

ARMAND-DELILLE Bull et mem Soc med d hop de Par 1028 thy 1555

The treatment of rackets by irradiated ergosterol E LESNÉ R LIÉMENT and S SENON Bull et mem. Soc mid d hop de Par., 1928 xl v 1515

Irradiated er osterine in the treatment of nickets G Unnico Rassegna internaz di clin e terap 1928 ix 865 Efecen years observation and attempts at treatment in a case of true osteopsathyrous E. BETTHAN Arch. f orthop Chir 1929 xvvi 634

Ot tis fibrosa cystics H R Owen and S LANYON Ann Surg 1920 lxxxix 300 Dry det as an irritative factor in the management of

surgical tuberculo is I BIRKENILAUER Zentralb! ! Chir 1028 lv 2 60

Osteitis tubercul isa multiplex cystoides tribution on tube culids of bone O JUENCLING Be to a

khn Chir 1028 exhii 401 Chronic osteomyclitis in a girl aged five years C P G

WARRIET Proc Roy Soc Vied Lond 1929 IND 400 Acute humatogenous osteomychus F DEEKMAN and C G BURDICK Inn Surg 1929 IXEXIX, 206 Typhoid osteomyelitis and the formation of double ab-

scess P Procherts Radiol med 1928 av 1033 The principles of the bacteriophage applied to esteo-

myelius F Il MBLE Internat J Med & Sure 1919

Central osteomyelitis following puerperal sepen alter three and a half months abortion W. L. TANKER Proc.

Roy Soc Med Lond 1929 XXII 406

Epiphyses their growth development injuries and discuses P Lewes Am J Dis Child 1929 XXXVII 141 Bone lessons in sarcoid a roentgen and clini al study H. P DOUB and F R MENAUR Am J Roentgenol 1020 XXI 140 J Mclar

Hereditary deforming chondrodysplasia LAND Surg Gynec & Obst 1020 vlvin 268

Dyschondroplasia multiple cartilaginous existoses S W BOORSTEIN and H HIRSCH Am J Surg 1929 VI 101

Experimental studies upon cartilage transplants GUERRIERO Ann ital di chir 1928 vii 1020 Experimental study of the a tion of direct stimuli upon

articular cartilage. C. Guerriero. Rasse, na internaz. di din e terap 1928 1x 759

Foreign bodies in and near joints F S GEIST Min nesota Med 1929 vit 82

Circuic joint disease a contribution on the etiology diagnosis, and treatment A ZIMMER Veroeff d Disch Ges i Rheuma bekaempfung 1928 p 16

Chronic infectious arthritis with multiple ankylosis of the joints H.W MEYERDING Surg Chin N Am 1929 17 42 The treatment of chrome arthritis with autogenous streptococcic vaccines P M LEATING Texas State J M 1920 XXIV 601

The treatment of arthritis with amiodoxyl B I SMITH Texas State J M 1929 Xxiv 693 Infectious pseudorheumatism J R Goyeva and 1 Dac

MINO Semana méd 1928 TXTV 1339 Joint complications of blood diseases | Lever 1928 Dissertation Erlangen

A contribution to the roentgenological and clinical study of posttyphoid osteo-articular lesions B BELLUCCI Radiol med 1928 XV 1180

Experimental studies upon the mechanism of the forma tion of articular chondromatosis and arthritis deformans R LERICHE and E BRENCKMANN Presse med Par

1923 XXXVI 1441 Henderson Jones articular chondromatosis G Ric CIUTI Chir d organi di movimento 1928 xiii 39

Muscular hypotonia associated with congenital heart disease C Davison and M M Wetss Am J Dis Chill 1929 XIVII 359
Alteration of the action current of skeletal muscles fol

lowing sympathetic ramisection \ preliminary report on electromyographic studies \ STEINDLER and E LINDE MANN J Bone & Joint Surg 1929 xt 1

Myositis o sif cans circumscripta | Liento Zentralbl

Chir 1918, p. 2603
Endothelial myeloma case report D RICHARDSON
Trans State J M 1929 xm of A contribution on the study of tumors of the tendon Steaths M lortropetto Ann ital dichir 1928 vii 1220

Lymphogenic wry neck W Felix and L LUEDICKE Ztschr f orthop Chir 1929 1 329 Functional wry neck due to disturbances in vision REV and F. HENTSCHEL. Zischr f orthop Chir. 1928

Koentgenographic findings in 34 painful shoulders J F BRAILSFORD Brit M J 1929 1 200
Discussion on the painful shoulder G PERKINS Proc

Roy Soc Vied Lond 1929 xxii 548 A new arm prosthesis with the Sauerbruch hand J Port Arch f orthop Chir 1928 xxvi ,8

A case of chronic at scess in the shaft of the humerus C P G WARLEY I roc Roy Soc Med Lond 1929 EX11 40S

An anomalous muscle of the forearm inserting into the eath of the median nerve J T Rught Ja Record 1929 xls 299

The operative improvement of true and so called symp tomatic Madelung's deformity F SCHNEK Ztschr f orthop Chir 1928 I 329 Radial deflection deformity of the wrist due to non

union following osteomyelitis II W MEYERDING Sura Chn N Am 1020 18 41

Metacarpophalangeal gangha M BUFALINI Chir d organi di movimento 1928 vili 29 The deformed hand C VOY WEDEL J Oklahoma

State M 388 1020 XXII 38 Hereditary transmission for several generations of a double pure ulnar club han! C BUIZARD Bull et mem

Soc d chirurgiens de Par 1928 xx 711 Congenital webbed fingers K Dwigitt Ann Surg 1020 Perus 287

A curious case of polydactyly Bressor Bull et mem Soc d chirurgiens de Par 1928 xx 66 Dupuytren's contraction with a description of the pal

mar fascia a review of the literature and a report of twenty nine surgically treated cases \ B KANAVEL S L Koch and M L Mason Surg Gynel & Obst 1020 xlvm 145

Tuberculosis of the digits clinical and statistical considerations upon sixty eight cases treated in a marine sanatorium M Benci and A Mezzari Chir d organi di movimento 1928 xiii 57

Cystic formation in the carpal bones > Piwko Arch f orthon Chir 1028 xxv1 650

Bilateral cervical ribs with complete paralysis of the left upper arm L TORRACA Ann ital di chir 1928 vii 981 The styloid processes of the lumbar vertebra V Purri

and F Mandruzzato Radiol med 1928 xv 1000 Low back injuries F D Dickson Nebraska State M J 1929 xiv 41

The treatment of severe scohosis by compensatory cur

vatures Parisel J de chir et Ann Soc belge de chir 1928 D 200 Animal experimental studies on adolescent kyphosis

MAU Zentralbl f chir 1928 p 2847 The etiology of backache in medical practice G L LAMBRICHT Ann Int Med 1920 II 807

Lumbago J VEYRASSAT and F Ony Rev m'd de la Suisse Rom 1928 xlviii 977 Spondylolisthesis (spondylolisthesis imminens) sacrum

acutum sacrum arcuatum regio lumbosacralis fixa as frequent causes of back pain P Schere Ztschr f orthon Chir 1928 1 304 Traumatic spondylohsthesis H W MEYERDING Surg

Chn \ Am 1929 1x 49 Clinical and roentgenographic observations upon spon

dylolisthesis and spondylolysis C FALDINI organi di movimento 1928 xii 545 \ typical type of lumbosacral ostrochondronathy T

BARSONY Orvosi hetil 1928 p 1049 I brief study of Kuemmell's disease with report of cases 5 T WIER Texas State J M 1920 xxiv 699

Is Kuemmell's disease to be considered a definite disease entity of the vertebral column or merely a symptom? HEILIGTAG Muenchen med Wehnschr 1928 p 1965, Non tuberculous spondylitis D CARLETON Cew

England J Med 1929 cc 320 The course and prognosis of tuberculosis of the vertebral column based on 108 ca es of the Federal Military Insur

ance during the years from 1902 to 192 O BUSINGER Schwiez med Wchnschr 1928, Ivin 355 Vertebral echinococcus disease F Deve. Ann d'anat

path 1028 v 84t I case of rhizomelic spondylosis with generalized anky

losing evolution G LAURE Bull et mim Soc m d d bop de l'ar 1928 xh 1561

Some observations on the diagnosis of mild cases of poliomyelitis. L I REEDMAN New England J Med. 1949 ct. 384 Fit tultaed dermoid cyst of the sacrococcygeal region MILLER. Bull et mem Soc d chrurgens de 181. 1928

Myeloma of the spine D C DURMAN Ann, Surg 1028 IXXXVII: 975 [554] Giant-cell tumor of the lumbar spine R ZANDLI Chir

Giant-cell tumor of the lumbar spine R ZANOLI, Chir d organi di movimento 1928 via 87 Enchondroma of the right transverse process of the first

Iumbar vertebra revealed by roentgen examination E I ITTONI Riforms med 1928 xliv 1208 (554) Concerning lateral roentgenography of the hip Mas

SARD Bull, et mem Soc d chururgiens de Par 1928 xx
7 I
Familial occurrence of osteochondritis deformans coxx

(Perthes) H KAISER Wien Arch. f. inn. Med. 1928 xvi 61. Arthritis deformans of the hip particularly the etiology and injunious effects of army service. H STOELEVER Verzil Monatsschi 1928 exchi. 227.

Funnel shape for thigh prosthesis H von Renesse Arch f orthop Chir 1928 Xvvi 790 Benign tumor of the femur previously diagnosed and

treated as manignant H W MEYERDING Surg Clin N
Am 1029 is 46
Endotheloma of the femur H W MEYERDING Surg

Endothelions of the femur H W MEYERDING Surg Clin N Am 1929 ix 52 \(\chi_2\) contribution on the mechanics of the knee joint H TRETTER Deutsche Zische f Chir 1928 ccsii 63

The automial findings in a case of impure of the quadricept sendo Guttalivas Louis Bull et missi on at de chir 1915 (by 1914). The pathogenesis clinical aspects and treatment of the flail knee in its relation to the collateral tibal ligament of Hessian Wuezh Abhandi a di desamtgeb d Med 1928 v 145.

Chond omato is of the knee \ Vol.ctrp Bull, et

Chond omato is of the knee \ \to(cirer Bull, et mem Soc nat de chir 1928 liv 1163

O teomychitis causing elongation of the tibia and fibula

A E M Woolf and I Price Proc Roy Soc Med Lond 1939 1911 403 Tuberculos s of the tibial apophysis A Mezzari

Radiol med 1928 xv 1209
Osteoma of the upper third of the left tibia with cystic
a as following osteomyelits H W MEYERDING Surg

Clin N Am 1929 iv 39
The normal child foot based on a study of 1 000 children
Gerassimowa and K kotscheff Arch I orthop

Chir 1928 xvv 757
A case of Kochler's disease presenting unusual festures
E. H. Jedens Proc Roy Soc Med Lond 1920 xxii 543
Metatarsal epiphysius A Moucher J Bone & Joint
Community 27
[553]

Surg 1929 x1 87
Spindle cell sarcoma of the foot W G Elster Ann
Surg 1920 lxxxix 304
A p rubar condition of the sole fibromatosis and

hyante der nerat on of the connect ve tissue Goenet. Zentrallil f Chir 1928 p 2524 Hallux valgus R L ANDERSON South M & S 1920

Hallux valgus R L Avdersov South M & S 1929

xx1 4

The role of the sesamoid in hallux valgu H Timer
Deutsche med W hischr 1928 p 192

Surgery of the Bones Joints Muscles Tendons Etc

A new home peg and method of use H R ALLY J Indiana State M Ass 1929 xxIII 61 The surgery of infectious osteomyelitis O R MILLER Internat J Med & Su g 192) xhi 61 Conservative operations in chronic osteomyelitis W M

BRICKNER Ann. Surg 1929 lexxix 293

The treatment of arthritis F C Hall. N England J
Med 1929 cc 369

Interposition of fixed ca tilage bet een bone stumps for the purpose of produing a nearthrosis G Calls of Archital dichir 1928 xxii 225

Reconstruction of the clavicle by a bone g aft Mapier and Motomer Bull et mem Soc. nat de chir 1928 iv 1208

Humeroscapular arthrodesis in the treatment of scapular paralysis D DEFINE Bol Soc de med e cirurg d S laulo 1928 xi 262

The approach to the humeric by the interest south

The approach to the humerus by the internal route A PARCELIER and A CHENUT Key de chir Par 1928 vivu 454

The operative use of parosteal callus in old supracondy lat fractures of the humerus K von Drewnen. Arch 1 orthop Chir 1928 xxx1 613

Phigmon of the palmar sheath of the index finger treated by lateral into ions and cured with conservation of the movements of the finger MONIO CUTF and LECENSE Bull et mice. Soc. nat de char 10.28 to 12.3 Substitution of the great toe for the thumb K. Hell BERG Hyghe 1098 Re 42.5.

The treatment of scoliosis R Galeazzi J Bo e & Joint Surg 1990 xi 8 [556] Experiments in a new method of treating scoliosis V

CHLUMSKY Slovansky born ortoped, 1928 in 265 The results of spine fusion for scolosis S Kiekser J Bone & Joint Surg 1929 vi 66 [556] The results in four cases of diper's treatment for lumbar

Potts disease Kichtard and Chire Edward. Bull et mêm Soc nat de ctur 1938 by 1117 The treatment of tuberculosis of the spinal column F Kommer, Tuberkulose, 1928 viii 270

Operative mobilization of the hip R KLAPP Chiro g
1928 1 20
Posterior capsuloplasty in certain flexion contractures of

theknee P D Wrisov J Rome & Joint Surg. 1979 5. 40 White tumor of the knee in a chil? Robertson Lovall operation the result aiter on ht months. P. Convent Bull et mem Soc nat. de Chir. 1933 hv. 1217 The technique of doub, extraptation of the m. in city

the anterior route J 4 Carro Semana mid 1918,
xxx 1240
Resection of the a ticulation of the knee for ankylous at

go degrees fi 110n F SUSONI and ASTOR. Bol. Asoc m d de Puerto Rico 1928 xti 47 Local anasthesia of the medullary canal of the Ubia F E Christianny Rev Asoc med argent 1928 xb

Osteomyelitis of the upper end of the tibia openin of the medullary canal filling of the cavity and the elate result Duply be Frencher Paris chir. 1913 xr. 101

result. Dept x ps. Frex. ref. Paris chir. 1923 52 101.
Technical perfection of operations on the toes by means of osteotome forceps. Il Bara Zentralbl. f Chir. 1928
1v. 2 05
The operative treatment of deform ues of the toes par.

ticularly halfur values and hammer toe W RAYEN
Muenchen med Webnecht 1918, p. 1629
The Chlumsky operation for pes calcaneus sursum fletus
cong nitus J Vayrag Slo anks; Shorn ortoped 1928,

Fractures and Dislocations

Frictures and thur teatment W L Powert Virginia VI Month 1929 by 6

m 20g

Treatment of fractures with the equilibrated swinging triction apparatus H I Wijvey Surg Gynec & Obst

oo urda een

The regeneration of fractured bone particularly the hitogenesis of the skeletal tissues (bone and cartilage) k von Korre Rev med Lat Am 1928 zuv 3324 Transarticular nailing (late result in a case of subcapital fracture) J VERBRICGE J de chir et Ann Soc belge de thir 1928 p 180

A modification of Steinmann's extension nail W Dirker. Med Klin 1928 p 1632

Surmal intervention in fractures of the long tube bones D Millojevic and M Smovic Med Pregl 1928 in

Fractures of the clavicle E L ELIASON J Am M

Ass 1928 ver 19 4 15581 Th treatment of fractures of the clavicle with bone plates J W Davis Mil Surgeon 1929 Inv 241

The treatment of clavicular frictures J Sejnar Casop lik česk 1928 p 1403

The treatment of fracture-dislocations of the shoulder joint \ Silfverskiold Acta chirurg Scand 1928 15581

A case of direct luxation of the shoulder F Dusi Chir d organi di movimento 1928 xiii 73

Recurring luxation of the shoulder H G Lagos An Fac de med Univ de Montevideo 1928 viii 633

Recurrin luxation of the shoulder Loico J de chir et Ann Soc bel e de chir 1928 p 200 Separation en masse of the lower humeral epiphysi in

tery young children A MOLCHET Presse med Par 1928 EXEVI 1435 Fracture of the lo er end of the humerus treated with

seres good result AUTEFACE and MARTIN Bull et mi'n Soc nat de chir 1928 liv 11,2

The treatment of supracondylar fractures of the humerus Drevernan Zentralbl f Chir 1928 p 2 02 A contribution to the mechanism of fractures and di lo-cations in the elbor region T T Thomas Ann Surg tory lexus 108

Fracture of the electronon in an old man H BLANC Bull et mem Soc d chirurgiens de Par 1928 xx 803 Octeosynthesis of f actures of the olecranon H Jener

Pans chir 1928 Xx 165

Fractures of the lower end of the radius in adults II EDWARDS and E B CLAYTON Brit VI J 1920 1 61 [559] Fracture of the navicular (carpal) bone E B Mix forn J Inhana State VI Ass 1929 xxii 56

Di location of the carpal lunate C NANNESTAD Ho p Tid 1928 p 112

The possibilities of healing of lunate fractures (an ana tornical and roentgenological study) M Hirsch and k GOLDHAMPR Arch I klin Chir 1928 ch 93

Fractures of the base of the first metacarpal bone pecial reference to the mechanism of their production

Magerica Chir d organi di mo imento 1928 zii Dupuytren s fracture 1th consi lerable diastasis osteosynthe is by means of scre failure osteosynthesi by

means of flular graft recovery LEO Bull et mem Soc d chrurgiens de Par 1028 xx 754
Bennet's fracture L Havinga Nederl Tijdschr v

Gennesk 1928 p 50/8
Recurrent dislocation of the thumb Cap ulorrhaphy

II Milen Am J Surg 1929 vi 23 Lolated fracture of the transverse p ocesses of the lum bar vertebra: Jatsay Zentralbi f Chr. 928 p 2004

Isolated fractures of the transverse processes of the lum bar vertebre J B HARTWELL Colorado Med 1929 XX11 3

Isolated fractures of the lumbar transverse proces es ten cases L Grivally and P Wiart Bull et mem Soc. nat de chir 1928 liv 1356 Isolated fracture of the sacrum case report \ \ \(\forall A \rangle D

The factor determining shock in di articulations of the hip C STAJANO D BENNATI and B PERTLEZO Fac de med Univ de Montevil o 1928 viii 642

ler Zentralbl f Chir 1928 p 2824

I treatment for fracture of the hip G A HENDON Internat I Med & Surg 1929 xlu 66 Bilateral fracture of the pelvis with intra pelvic disloca

tion of the head of the femur fracture of humerus I I MOORHEAD Ann Surg 1929 Levely 288

Congenital dislocation of the hip joint \ KRIDA \m Surg 1929 vi 18, Two cases of pelvic displacement of the femoral head

A GUILLEMIN and A BASSET Bull et mem Soc nat d chir 1928 liv 1192 Studies on the heredity of orthopedic con bitions II

Congenital dislocation of the hip E ISIGNETT Arch f orthon Chir 1028 XXVI 650

Splitting the acetabulum a method of curing of I con genital dislocations of the hip P Bade Muenchen me l Webnschr 1028 p 1,11 Di locatina coxa valga V Musil Ca op lek cesk

1928 INN 971 1015 15631 Lateral radiography of the h p in the treatment of frac tures of the neck of the femur JUDET Bull et mem Soc d charurgiens de Par 1928 vx 735 A ca e of isolated fracture of the head of the femur P

HESS Arch f orthop Chir 1928 XXVI 65 Fractures of the neck of the femur M S Henderson

Surg Ulm N Am 1929 18 25 Fracture of the neck of the femur in a patient age I one hundred years and nine months I I MOORIEAD Ann

Surg 1929 lxxxix 289 Four cases of recent fracture of the femoral neck treated by fibular bone grafts C DUJARIER Bull et m m Soc nat de chir 1928 hv 1115

Transcervical fracture of the neck of the femur treated by screwing BERNARD and DUJARIER Bull et mem Soc nat de chir 1928 liv 1163

Fractures of the shaft of the femur W C CAMPBELL Radiology 1020 XII 106 Displacement of the upper femoral epiphysi summary

of twenty seven studied cases C E. BADCLEY J Am M Ass 1920 von 355
Bucket handle fracture dislocation of the medial

men cus of the knee joint A S FRY J Roy Army Med Corps Lond 1929 in 12, Luxation of the internal meni cu irreducil le blocking of the knee H WELTI and J ARVISET Bull et mem

Soc nat de chir 1928 liv 1216 Congenital di location of the knee BUNNE Zentralbl f Chir 1928 p 252

An unusual case of dislocation of metatarsal bone

J K NARAT Am J Surg 1929 vi 239

Isolated luxation and subjuration of the navicular bone of the foot J GANGLER Beitr z klin Chictlu 671

Congenital di location of the talus Deutschlaender Zentralbl f Ch: 1928 p 2848 Double luxation of the astragalus G PANIS and P Mocotor Bull et mem Soc nat de chir 1928 hy 1141

Orthopedics in General

Thirty seventh repo t of p ogress in orthopedic surgery (concluded) P D WILSON L T BROWN M N SMITH PETERSEN R GHORNLEY M 5 DANFORTH E I CAVE

Some observations on the diagnosis of mild cases of poliomyelitis E FREDMAN New England J Med 1929 cc 384
Listuized dermoid cyst of the sacrococcygeal region

MULLER Bull et mém Soc d chirurgiens de Par 1928 xx , 96 Myeloma of the spine D C DURMAN Ann Surg 1928 Exxviii 975 [554

1928 EXXVIII 975 [554]
Guant-cell tumor of the lumbar spine R ZANOLI Chir
d organi di movimento 1928 xiii 87
Luchondroma of the right transverse process of the first

500

Lumbar vertebra revealed by rocutien examination E
Pirrovi Riforma med 1928 thy 1208 [554]
Concerning lateral rocutienography of the hip Mas-

Concerning lateral roentgenography of the hip Mas-SARD Bull et mem Soc d chirurgiens de Par 1928 xx 771 Familial occurrence of osteochondritis deformans coxe

(I erthes) H KAISER Wien Arch f inn Med 1928 xvi 61 Arthritis deformans of the hip particularly the etiology and injurious effects of army service H STORLEMER

Aerzil Monatsschr 1928 exciu 225 Funnel shape for thigh prosthesis H von Renesse

Arch f orthop Chir 1928 xxv1 790

Benign tumor of the femur previously diagnosed and treated as malignant H W MEYERDING Surg Clin N
Am 1920 ix 46

Lindothelioma of the femur H W MEYERDING Surg Clin N Am 1920 ix 52

A contribution on the mechanics of the knee point II

The anatomical findings in a case of rupture of the quadraceps tend on GULLATURE LOUIS Bull et mem Soc nut de chir 1928 liv 1094. The pathog-mess chineal aspects and treatment of the fial kinee in its relation to the collateral tibial I gament OHESELES Wuerzh Abhandl a d. Gesantgeb d Med

1928 v 145 [555] Chondromatosis of the knee A MOUCHET Bull et mem Soc nat de chir 1928 kv 1163

mem Soc nat de chir 1928 liv 1163
O-teomyelius causing elongation of the tibia and fibula
A E M Woolf and I Price Proc Roy Soc Med
Lond 1020 vxii 408

Tuberculous of the tibial apophysis A MEZZARI
Radiol med 1928 xv 1209
Osteoma of the upper third of the left tibia with cystic

Osteoma of the upper third of the left tibia with cystic areas following osteomyelitis H W Meyerdens Surg Clin N Am 1929 ix 39 The normal child foot based on a study of room children

The normal child foot based on a study of r coo children
N Gerassimona and K Kotscherr Arch f orthop
Chir 1928 tvvi 67
A case of Koehler's disease presenting unusual features

E H Jebens I roc Roy Soc Med. Lond 1929 xtm 545 Metatarsal epiphysius A Moucrer J Bone & Joint Surg 1929 v 87 Spindle cell sarcoma of the foot W G Elmer Ann

Spindle cell sarcoma of the foot W. G. ELMER. Ann Su g 1920 lxxix 304. A peculiar condition of the sole fibromato is and hydron degeneration of the connective tissue. Goebel.

Zentralbl f Chir 1928 p 2524 Hallux val us R L Anderson South, M & S 1929

The rôle of the sesamoid in hallux valgus H Timmer Deutsche med Wehnschr 1928 p 1927

Surgery of the Bones Joints Muscles Tendons Etc

A new bone peg and method of use H R ALLIN J Indiana State M Ass 1920 xxii 61 The su gery of infectious esteemyehtes O R Males Internat J Med & Su g 19 9 vin 61

Conservative operations in chronic osteomyelitis W M BRICKNER Ann Surg 1929 IXXXV 203

The treatment of arthritis I C Hall N England J

Med 1939 cc 369
Interposition of fixed cartilage bett een hone stimps for
the purpose of producing a nearthrost. G Catrission
Arch 11st die chir 1928 Stim 255
Reconstruction of the clavicle by a hone graft. Manus
and Moucing Bull, et mem Soc. nat de chir 1 cs Nasia

Humeroscapular arthrodesis in the treatment of scapular paralysis D DEFINE Bol Soc de med. e cirure d S

Paulo 1928 x1, 262
The approach to the humerus by the internal route \(\)
PARCELIER and \(\) CRENUT Rev de thir Par 1928

The operative use of parosteal callus in old supracondy lar fractures of the humerus K, von Divipion, Arch i

Phlegmon of the palmar sheath of the index inger treated by lateral incl ions and cured with consensation

treated by interat inclions and cured with conservation of the movements of the finger Moutovoiers and Lecence Bull et mem Soc nat de chir 1928 hv 1244 Substitution of the great to effor the thumb k Hall near Hygiea 1928 fc 452

The treatment of scohosis R GALEAZZI J Bone &
Joint Surg 1929 ti 81 [556]

Experiments in a new method of treatin scolio: \(^1\) Children's Slovansky Shorn, ortoped 1928 in 265.

The results of sp ne fusion for scoliosis S kleinbear

I hone & Joint Surg 1929 vi 66 [556]

The r sults in four cases of Albee's treatment for lumba Pott's di ease RICHARD and OMEREDANE Bull et mem Soc nat de chir 1928 hv 1117

The treatment of tube culosis of the spinal column F
KOEHLER Tuberkulose 1928 viii 2
Operative mobilization of the hip R KLAPP Chirusg

1928 1 20
Posterior capsuloplasty in certain flexion contractures of

th knee P D Witson. J Bone & Jount's u groy m 4 white tumor of the knee in a child Robertson Lavalle operation the result after ei ht months P Lome an Bull et mem Soc nat de Che 19 S lw 1247. The technique of double extirpation of the memse by

the anterior route J A CARERO S mana med 1928, xx. v 1240 Resect on of the articulation of the knee for ankylo: at

oo degrees flexion F Suson and Asron Bol Ason med de Puerto Rico 1928 xxi 4 Local anasthesia of the medullary canal of the t bia

F E CHRISTMANN Rev Asoc med argent 19 8 xh

Osteomyelitis of the upper end of the tibia open ng of
the medullary canal filling of the cavity and cloure late

the medullary canal filling of the cavity and cod me have such that the cavity and cod me have such that the cavity and cod me have such that the cavity and the filling and the cavity and the filling and cavity and cod osteotome forceps. H. Baer. Zentralbl. f. Chir. 1928

lv 2/6
Tie operative treatment of deformities of the toe par ticularly hallux valous and hammer toe W kave Muenchen med Wchuscht 1928 p 1629

The Chlumsky peratio for pes calcaneus sursum Berus congenitus J Vavrda Slo anksy bborn, ortoped 92% iii 209

Fractures and Dislocations

Fractures and this treatment W L PIWELL AS

Material from lymph nodes IV. The heterology of lymphord tissue with special reference to the monocyte Supravital studies C E FORENER J Exper Med 1929 xlix 323

A contribution to the study of subacute lymphogranu lomatosis J G I RIETO Med Ibera 1928 vii 321 Benign lymphogranulomatosis? H HALDIN DAVIS Proc Roy Soc Med Lond 1020 vin sor

SURGICAL TECHNIQUE

Operative Surgery and Technique Postoperative Treatment

Pre-operative treatment J W JAMESON N England

J Med 1929 cc 326 The basal metabolism and operability E SCHNEIDER Deutsche Ztschr f Chir 1928 ccx1 1

A pre operative injection of a fusible metallic mixture

mio fistulous tracts DANTS J de chir et Ann Soc belge de chir 1928 p 198 Simplification of the Grossich method of iodinizing the skin J Rose Blatt Zentralbl f Gynael 1928 p 2848

The value of methylene blue gentian violet 5 per cent in pre-operative skin preparation K ROBERTS Ann Surg 1919 lever 183

The tannic acid treatment of burns in children A H

MONTGOUERY Surg Gynec & Obst 1029 vlvm 27, The hamostatic use of dextrose solution L SCHOLS Batter Zentraibl f Chir 1928 lv 23 8

Oxymen therapy I ROTH Anes & Anal 1929 viii

The action of the Bayliss artificial serum in physio

logical experiments with yound shock I WENT Orvo i

hetal 1028 p 1095 The action of embryonal tissue on wound healing W

SCHLOSS Arch f klin Chir 1928 cli 701
Some experiences in skin grafting C Chi Nat M J

China 1029 XV 20

The effect of periarterial sympathectomy on the taking of autoplastic skin grafts. A Maguillo Sperimentale 1025 LTTTIL 68

Reconstruction of the upper lip and portion of the nose G B Yew Surg Clin N Am 1929 tx /5 Fight months of vaccination during the course of

operation PALCHET MORNARD and BECART Bull et mem Soc d chirurgiens de Par 1923 xx 746

study of the square knot L M Livingsrov Am Surg 1920 VI 121

Industrial surgery M H Towle > England J Med 1929 CC 282

The present status of electrosurgery G F WARD

The alkaline reserve following surgical operations \ Boxono Arch ital di chir 1928 etil 221

The effects of anasthesia operation and other factors on glycemia E Mckic and H Mitter Brit M J 1929 1 244

Po toperative treatment D W PARKER N Ingland J Med 1920 cc 2 8

Po toperative complications wound infection J K

The functional examination of the re piratory apparatus

a contribution on the surject of postoperative pulmonary complications A Fol. Arch ital dichir 1928 xx1 3 8 The postoperative administration of ovygen as prophylans against pulmonary complications. L. A. Passal ACOL 1 and E S Jupo Surg Cln N Am 1029 1v 13 Postoperati e complications in the respiratory system I J KEEVEY 1m J Surg 1029 VI 139

Postoperative complications in the circulatory system R II LANGLEY Am J Surg 1929 VI 141

Postoperative complications in the circulatory system S GRANGER Am J Surg 1929 11 142

Postoperative complications gastro intestinal ileus an I peritonitis G Dock Am J Surg 1929 vi 143

Postoperative complications gastro inte tinal ileus and pentonitis F & Colles Am J Surg 1929 vi 144 Postoperative complications acidosis and alkalo

R E FALLAS Am J Surg 1929 v1 145 Postoperative acidosis Heinecker Zentralbl f Chir 1928 p 2605

Postoperative urological complications Am J Surg 1929 vt 147

Antiseptic Surgery Treatment of Wounds and Infections

The common concept and practical considerations con cerning infection immunity and prophylavis D \ B Garcfa Clin y lab 1928 viv 404 Foreign body in the cheek-an unusual case I S

BALYEAT California & West Med 1929 xxx 123 Common injuries to the finger tips and their care

M E LICHTENSTEIN Illinois M J 1929 lv 125 Wound due to copying pencil G BETTAZZI Policlin Rome 1928 xxxv sez chir 501 Jodalcet 1 new wound di infectant and hamostatic

DUELER Med Klin 1028 p 1521
The furuncle and carbuncle H HEINLEIN Muenchen

med Wchnschr 1928 p 1,07

med Wchnschr 1928 p 1,07
Vanco e dressings in the treatment of leg ulcers IT
PREYESCH Muenchen med Wchnschr 1928 p t 99
Vancous infections of the hands and feet I M Johns Orleans M & S J 1929 lxxxi 527
The treatment of tetanus with avertin

Zentralbl f Chir 1928 p 2524

The treatment of the wound in tetanus Cure of a severe case of postoperative tetanus by amputation and Bazy Bull et mem Soc nat de chir 1928 la 15631

Antitoxic colon bacillus serum in the treatment of abdominal conditions II KOHLER Zentralbl f Chir 1028 p 2441

Hot water irrigation in treatment of tuberculous abscess M CHEN Nat M J China 1929 to 16 Berberine in the treatment of oriental sore B M D

GLPTA and B B DIASHITA Indian M Gaz 1929 lxı

The treatment of tropical buboes II KLEMMEI IR Zentralbl f Chir 1928 p 2254 A contribution on the roentgen therapy of inflammatory

processes I ABBATI hadiol med 1928 XV 1011 A contribution on the roentgen therapy of inflammatory processes due to pyogenic organi ms G BARBACCI

Radium treatment of cancer in France and Belmum D ARMOUR and H S SOUTTAR Lancet 1929 ccxvi

200 Industrial surgery W F McANALLY J Oklahoma

State M Ass 1020 vvii 42 Blood tran fu ion in the treatment of surgical infections A M Dogliotri Arch ital di chir 1928 XXII 200 [564] 1028 1 Beilageheft

J G RUINS C H BUCHOLE G PERRINS and A. VAN DESSEL Arch Surg 1929 xvm 755 Errors in diagnosis Sprizy Zischr f orthop Chir Vide mecum of pecial surgery and orthopedics for physicians Ed 6 H Ziegner 1928 Lepzig Vogel

The limits of percutaneous electrotherapy in orthopedics and the possibilities of substitution E DETIMANY Lbn Wchnschr 1028 D 2107

The material weight and function of prostheses their relationship to one another and to the efficiency of the pa tient R GOERLACH Arch.f orthop Chir 1928 1111 80 The modern manufacture of prostheses E Nygor Ugesk i Læger 1928 p 995

How many patients wear their orthopedic apparatuses? Rost Muenchen med Wchnschr 1928 p 1630 A simple hand drill for wire extension. If STEINER Zentralbl [Chir 1928] 2768

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Blood Lessels

Terminal forcipressure of the arteries V GAGLIO Arch ital di chir 1928 xxn 165

The bite of the leech and its action on human blood ses els Magnes Zentralbl I Chir 1928 p 2355 The treatment of obliterating phlebitis by hirudiniza-

tion J CHAVANNAZ and J MAGNANT Rev de chir Par 1928 xlvn 461

Vancose veins A T Bazis, N England I Med 1020 CC, 442
Varicose veins treated by injections W G S Foster

J Roy Army Med Corps Lond 1929 lu 132 The injection treatment of varicose veins Robb N Zealand M J 1929 TXVIII 448

The treatment of varicose veins by sclerosing injections A I CARRASQUILLO Bol Asoc med de Puerto Rico 1928 XX 57

The radiographic aspects of sclerosing injections of the lower limbs P DEL TORTO Riforma med 1028 kby 1525

Disability from varicose veins in unilateral leg amputation W WOLF Muenchen med Wchnschr 1928 p 1964 Arternal venous aneurism of the renal vessels and subsequent asystole M E VARELA. Rev méd. Lat Am 1923 XIV 3244 Diffuse apeurism of the popliteal artery due to an osteo

genic exostosis of the femur lateral suture of the artery recovery Borre and Moure Bull et mem, Soc nat de

chir 1028 hv 1097 A study of the pempheral arterial circulation in arte osclerosis and gangrene W C Empsoy and S L

mosclerosis and gangrene II C EMERSOV and MARREN Surg Gynec & Obst 1929 xlvin 236 Prosion of the ribs due to stenosis of the isthmus (coare tation) of the north O C RAILSBACK and W Dock

Radiology 1920 xu 58 Lio Buerger's dicease L O Zevo O CAMES and I M CID Rev med Lat Am 1928 viv 3267

Three cases of postoperative embolism Moncan Bull et mem Soc d chirurgiens de Par 1928 xx 793 MONCANY An unusual case of primary thrombosis of the pulmonary artery with subsequent retrograde embolism of the renal

vein F Sames Riforms med 1928 xliv 1481 Thrombo-embolic disease and its surgical treatment L H GIERTZ and C CRAPOORD Acta chirurg Scand

1028 luv 121 A contribution to the surgery of the blood vessels GOYANES J de med de Bordeaux 928 ev 022

Blood Transfusion

Hamoporetic serotherapy in surgical practice G

CLCCO Clin ostet 1928 xxx 734 The stability of the suspension of the blood and the autonomic nervous system G Di Macco Rassegna internaz di chin e terap 1928 ix 744

Experimental studies on the action of salt on the viscosity of the blood Y NAKATANI Mitt d med Ges zu

Osaka 1928 xxvii 47 Modifications of the blood chemistry resulting from in travenous injections of urea B VARELA FUENTES J DLOMARCO and A MUNICLA Rev Asoc med argent

1028 XL 860

Remarks upon the modifications of the blood produced by treatment with fiver or its extracts in the animus G. Hayew. Bull et mem. Soc. med. d. bop. de Par. 1929. Thy 1466

Studies upon modifications of the white cells in progres sive permicious america following liver therapy G Listvi

I oliclin. Rome 1028 xxxv sez prat 2083 The blood platelets in plenic anamia W. H. Evans Lancet 1919 CCIVI 277

Aleukæmic lymphocythæmia transformed into lym phoid leukæmia C AUBERTIN Bull et mêm Soc. méd

d. hop de Par 1928 zis 1551 The survival of the leucocytes in various suppurative accumulations F Strpa, Policim Rome 1928 Eur sez prat. 2310

The lymphoid state of chronic leukamia C Austrin and M Poursuloux Bull et mem Soc, med d hip de Par 1928 xl v 1534
The early stages of lymphatic lenkæmia with difficulties

of diagnosis EMILE WEIL and R CAREN Bull et mim Soc méd d. hôp de Par 1928 aliv 1548 Roentgen urad ation effects on systematic aleukamic lymphomatosis a report of four cases B F Schreiner

kadiology 1929 til 127 Splenectomy in a case of hamorrhame purpura J d chir et Ann 50c belge de chir 1028 p 202

Blood group classifications used in hospitals final re port J A KENNEDY J Am M Ass 1929 xcu 610

Blood transfusion Rev med Lat Am 1928 iv 3350

Re infusion of intra abdominal blood F Dany

IDENSER Zentralbl f Chir 1048 p 2884

Reticulo Endothelial System

The phagocytic cells of the mammalian liver G M HIGGINS and F C MANN Surg Clin N Am 1929 er. 6x

Blocking of the reticulo-endothelial apparatus and ovarian transplants C Sureget, Riv ital di ginet 1028 VIII 01

Lymph Glands and Lymphatic Vessels

A contribution to the study of acute and chronic adenitis of alseolodental origin Presse med Par 1928 xxxvi 1496 M G LEBEDINSKY

The blood as a diagnostic aid in the differential diag nosis of lymphadenopathies J D Lyrrie and L Rose.

BERG Inn Int Med 1929 11 747

ome practical notes concerning the ultraviolet rays J Damanovice: Semana méd 1928 xxvv 1275 Admiral and experimental contribution on the chan es due to the infra red rays in the biological action of ultra sidetrays G M Revictio Actinoterapia 1928 vii 151

Flectrotherapeutics in modern otolaryngology J J Siesa South V J 1929 viii 166
The relation of frequency to the physiological effects of ultra high frequency currents R V Carastrie and A I I I Tomer J Frept VI 1920 vix 193

MISCLILANIOUS

Chnical Entities-General Physiological Conditions

congenital deformity of the forearm and hand C P WARRIET Proc Roy Soc Med I and 1020 XXII 400 The relation of nutrition to general immunity heis J Dental Res 1929 ix 11

A few observations on the hæmodynamics of the normal usualtion and the changes which occur in aortic in sufficiency S A GLADSTONE Bull Johns Hopkins Hosp Belt 1929 thy 83

The clinical significance of certain intestinal poisons E BECREE Muenchen med Wchnschr 1928 ltv 405 Dubetes and surgery Sauvé Bull et mem Soc nut dechir 1928 hv 1157

The influence of diet on tumor growth F FRIEDBERGER lethandl d deutsch Gesell ch f innere Med 1927 p

The glycogen glucese and lactic acid in malionant tu The diagnosis of obscure malignant conditions

Bricksuses J Med Cincinnati 1929 is 500 Epithelioma of the skin in a female cotton operative LH SOCTHAN and P B MUMFORD Brit M J 1929 1

Benign calcified epithelioma of the skin M FEVRI and R.G PALUER Ann danat path 1928 v 89 Some thoughts on the nature of cancer Sig C 1

SMILLICE LINEE 1929 CCEVI 321
The aspects of the question of epithehal cancer from the demandological stempoint L M PAUTRIER Bruxelle

nd 1938 it 33
Description of the Security Science of the Description o kn. C P G WAKELEY Proc Roy Soc Med I and 1919 XXII 414

a malignant tumor starting on the scar of a gun hot Norad, Bressor Bull et mem Soc d chirurgien de Par 1928 xx 86

Scar carcinoma Goebel Zentralbt f Chir 1928 p Is cancer increasing in pregnancy? MAYER on I FIREFT

Bull. Soc d obst et de gynéc de Par 1928 xvii 878 The struggle against cancer C BUTLER In Fac de ted Umv de Montevideo 1928 xiii 551

Experimental carcinoma M ASKANAZY Sch eiz med Hehnschr 1928 hu 1200 Diet and cancer Sig \ Lane Internat J Med &

gg 1930 this 50 Halogen cells of magnesium and cancer P Dalbit Daniel Cancer P Dalbit Of Magnesium and Cancer P Dalbit Of Magnesium

The treatment of cancer J R Malison J South Carolina M Ass 1929 XXV 317

Colloidal lead combined with rays and radium in the beaudiat lead combined with \ rays and radium in the frament of cancer A Solland W E Costolow and O \ Meland E A Solland W E Costolow and Wilder A William W Ass 1929 xen 194 [569] to C Khoy J Am M Ass 1929 xen 196 [560]

Colloidal lead with roentgen therapy in mal grant deese C A WATERS J A C COLSTON and L N [569]

Collorful lead and irradiation in cancer H J ULL 11455 J Am M As 1929 YER 18 15691 An experimental study of the etiology of Chicken Sarcoma I (Rou) W. I. CYE and J. H. MLELLER. J. Fyper M 1029 thy 195

General Bacterial Protozoan and Parasitic Infections

The rôle of infection in rheumatic children H Mc CULLOCH and E I M IRVINE JONES Am J Di Child 1929 TTVII 252

Coccogenic infections 7 A MAXWELL & Orleans M & S J 1929 lvvi 575

Suppuration of echinococcic hydatids and roentgen therapy O BUSING 1 Actinoterapia 1928 vii 118

The reaction of Cilbert Tzanck and Cabanis in lepto y Univ de Montevideo 1928 xiii 703

A case of colon bacillus pyæmia secon lary to appen ii cular ulceration thrombosis of the heart multiple emboli gangrene of the foot G DE MORSIFR and M GILBERT Rev méd de la Suisse Rom 1928 xlviii 1924 A case of cephalic tetanus H \ BACCHI Indian \ II

Caz 1929 km 89
I tiology of traumatic tuberculosis ZAHRADNICKY

Casop 1 k cesk 928 pp 1343 1390 Tularæmia W L Sulth Viginia M Month 1020

Rat lite fever Report of a case of streptococcal sense following rat bute ith symptom re-embling those of rat bite fe er I viv I tkowicz 1927 Di sertation I rlangen

Combined chaptres of the penis and lip E W KARCHER N Figland J Med 1929 cc 391 A surgical form of acterohemorrhagic spirocheto is \

DE LANERCNE Bull et mem Soc med d hon de Par 1928 xhv 1498

Ductless Clands

The defeat of old age the way to rejuvene cence. I

SCHMIDT 928 Leipzig List The injection transplantation of endocrine gland KUETTNER Zentrall I f Chir 1928 p 2006

Endocrinopath es a chinical report R II BATE Kentucky M J 1929 xxx 11 63

Endocrine factors in dementia pr cox R (. H iseres

Hingland J Med 1920 cc 301

Basal metal ol c studes in hypophyseal and ovarian issturbances F Herrfeld and V I Rieder Elischt f

khn Med 1928 ctv 200 Ciliated epithelium and mucus secreting cells in the human bypophysis A T RASMUS PN Anat Record

1929 xl1 273

The effect of castration upon the size of the parathyroid glands and upon the susceptibility to tetania parathyropriva in the albino rat M. D. Overnolser, and Record 1020 Xt 303

The mechanism of the action of thymophysin and a contribution on augmenting hormone action I CRAFF

Anæsthesia

The vegetative nervous system and anæsthes a G BREITMANY Zentralbi f Gynack 1928 p 26 2 Studie in the concentration and the action of narcotics on the re piratory center L CSILLAG Arch f evner

1 ath u Pharmakol 1928 cvtsi 270

Lyperimental studies of the effects of narcosis upon the alkaline re erae and the hydro en ion concentration of the blood \ Boxouo Ann ital di chir 1028 vii 10 6 Selective and thesia W H Long South M J toro XXII ISO

The selection of the anasthetic in surgery SUAREZ and M D GARCIA Bol Asoc med de Puerto

Lico 1928 TX1 37

A brief review of the use of anæsthetics in the Mayo Chinic in 192 J S Li voy Surg Chin \ Am 1920 iv

Method of tracheal insufflation and intubation inhala tion of anaesthetics W II Joves Lancet 1929 ccxvi 330 Cont oll ng fire and explosion bazards of angesthetics C II WARDELL, JR Mod Hosp 1929 XXXII 59

Expert opinion on surgical accidents R Sources Monatsschr [Unfallheilk 1928 vvv 200 The discussion of spinal anaesthesia at the Thirty seventh Surgical Congress M Cazin Paris chir 1028 xx 160

Spinal angesthesia T H Ktshell. Am J Surg 1929 VI 231

The cerebrospinal fluid after spinal anaesthesia P STÉPHANOVITCH Pre se míd Par 1928 vezvi 1402 Experimental studies in the improvement of lumbar anæsthes a H Helanowicz an i M Szajya Pol ka gaz lek 1928 vii 603

Rectal anasthesia with avertin amylenhydrate solution W Schulte Deutsche med Wehnschr 1928 p 1928 Our experiences with avertin anaesthes a H Hills BRAND Ztschr f aerztl Fortbild 1928 xxv 612 A chinical and pharmacological study of anasthesia in duced with avertin F NESTMANN Klin Webnsche 102S p 1001

The technique of avertin anaesthesia W WETTE. Zentralbl I Chir 1028 lv 1800 Avertin anæsthesia for phrenicectomy T Koeller

Zentralbl f Chir 1928 p 2498 Nitrous oxide-oxygen anaesthesia W Dexx Zentralh! f Chir 1928 p 2642

The place of ethylene oxygen anosthesia to g neral surgery J T NX N O leans M & S J 1010 IXXXI Gas anasthe in f om the standpoint of American ares-

thetic special sts II SCHMIDT Narkose h Anaesth 1029 1 530 Experiences with (willight sleep Day, Zentralb) f

Chur 1928 p 2 06 The analgesic and anasthetic properties of sodium iso amylethyl barbiturate L G Zerras and I T C. McCallum | In linna State M Ass 1020 XVI 47 Further successful results in the treatment of ether bronchitis by Bier's method. E. HAYWARD. Zentralbl f. Chir 1028 p 2 0t

Surgical Instruments and Apparatus

Transfusion and irrigation apparatus J W LINDSAY E C Rice and M A SELFAGER I Am M Ass 1920 XC 1 301

PHYSICOCHEMICAL METHODS IN SURGERY

(5651

Roentdennloov

A visit to Dr. Lars Filling Professor of Radiology of the Uni ersity at I and I BREMACOURT Bull Soc. d obst et de gynéc de Par 1929 xvii 822

The measurement of radiation dosage U 1 PORT MANY Am J Roentgenol 1920 XVI 170 The relation of fractional to depth dose H I ULL MANY Am J Roentgenol 1920 XXI 174

Concerning the reducing strength of the rays A CASATI Radiol med 19 8 tv 1215

Ruentgen therapy with small diagnostic apparatus F PLGNO-LA ONE hadrol med 1028 XV 1213 I new instrument for the standardization of roentgen depilati n G CHIZZOLA Rad of med 1928 xv 069

home ob ervation with reference to the behavior of we etable sprouts subjected to the action of secondary radiations I Course Radiol med 1918 Xt 1977 Effect of \rad ation on cryst fline and d ssolved sucrose M C REINDARD and L L Ticker Rad ology 1029 XII 151

Polyradiotherapy in dermatology W I Lel'EVRE Rad olony 1929 th 136 Increasing resistance against streptococcus sepsis ly roentgen irradiation animal exp riments F Bass and h Jano CHEA Strahlentherapie 1928 XXVIII 568

A comparative contribution concerning the ments of radiotherapy in cancer B MACCHIRELLA Folds Rome 1928 TAT Sez prat 2331 | Trat optics W L BRACO Brit J Radiol 920

A method of positive sh dow differentiation W J MANYING J Am M As 1929 RCH 646 A radiological image of oil in the tissues B Mocor Radiol med 1025 xv 122 Roentgenograms of the sphenoid and ethmori inuses

the oblique method 1 P Overgaard Arch Otolaryngol 1028 VIII 663 Yay and radium in the diagnosis of neoplasms W. S Stove a d.L. F. CRAVER, Ann. Surg. 1929 Junio 176

Radium

Radium a data action W F Dexon Bnt M J

1020 1 238 Radium in the treatment of malignant disease Gask Brit M J 1920 1 256
The regulation and control of radium therapy in can er

E Louis Poli bn Rome 928 xxxv sez prat 2327 Radium therapy of cancer at the Radium Institute of Paris O Recald Am J Roentgenol, 1929 xtl I FRAKT Radium treatment in Au tral a A Burrows Med

Australia 1020 1 131 The biological action of radium emanations I Cignot IN Radiol med 1928 XV 1121 The use of gold filtered radon seed

Miscellaneous

Radiology 1929 11 93

Sun treatment of perstonits A ROLLIER [568] pulmonale Tuberk 1928 1 129

11 65

SUBJECT INDEX

ABDOMEN Streptothrax of 21 fallacy of \ rays in abdominal diagnosis 216 results of study of roent genograms of abdominal viscera 238 experiences in surgical emergencies of 338 inflammatory diseases and hematomata of anterior wall of 430 abdominal pain in pregnancy 410 closure of without drainale

in operations on bile tracts 533 bortion bacillus of Ban, Spondylitis produced by 468 Abscess See names of organs

icetylene Volume of circulating blood in anæ thesia in

duced with 477 Acoustic nerve Origin of tumors of 519

letinomycosis Radiotherapy in 277 experimental 385 Idamantinomata 192

Adrenal, See Suprarenal Adrenalm Acute ri e of tension following use of in glau coma 108

Agranulocytic angina 198

Agranulocytosis (Schultz) and agranulocytic symptom complex 480

Alimentary fever 215 that Rebet of stasss in inflamed blood vessels by 476 Alkalosis in patients with peptic ulcer 25

Allergy Clincal and biochemical study of 377 Impulsa of Vater Cancer of 533

Anemia Evidence of hematopoietic hormone in I lood of children with 160 typical hæmolytic with spleno megaly to children 238 blood changes after splenec tomy in splenic with special reference to platelets and coagulation 270 diagnosis etiology and treat ment of pernicious types of in pregnancy 449 in late

pregnancy 530 of pregnancy and puerperium 530 toasthesia Late ether convulsions 2 method of intil tration for kidney surgery 72 in obstetrics 144 meningomyelitis in heredosyphilitic patient follo ing spinal 161 cresarean section under local in hea t disease 248 controllable spinal in ob tetrics 349 remonal in ob tetrics 349 means of intercepting ex plosions in anasthetics 373 clinical studies and chemical analyses of rebreathed muxtures 374 scopo lamine in second stage of abnormal labor 450 all o none law of and critique of Hans Winterstein 4 b determination of volume of circulating blood in in duced with ether avertin and acetylene 477 effect of ether and shock on calcium of blood 482 ephe dine-controlled spinal 547 new method of para erte bral for kidney operations 547 nephrectomy under

pinal, 54 hearsm Of brain 117 314 rupture of of abdominal aorta into duodenum 159 congenital cerebral 314

in ma Agranulocytic 198 intramuscular injections of

bismuth in Uncent's 415 etiology and etiological treatment of Plaut Vincent 514 Ingina pectoris Clinical analy is of ca es of 310

Inkle Fractures of 158 Intrum of Highmore See Manillary sinus

huma 60 calculous 353

torta Early thrombosi of businession of 69 importance of surgical exploration of bifurcation of in different al diagnosis of types of obl terative arteritis and deter mining treatment 69 rupture of aneurism of abdom inal into duodenum 150 ligation of terminal abdom

anal 167 ero ion of rib due to steno is of isthmus of 561

Apopleyy Late traumatic 418

Appendicitis Mortality factors in acute 33 treatment of perforative with or without abscess 131 rare com plications of acute 132 in children 230 advances in treatment of acute in last ten years 230 acute with rupture of bilateral tubal pregnancy 248 chronic in children 335 chronic 335 experiences in abdominal surgical emergencies 338 chronic from viewpoint of internist 438 diagnosis of in childhood 438 abscess of liver following 532

Appendix Diverticulosis of and pseudomyroma pentonei 32 blood supply of 229 relations between and gen italia with regard to carcinoma and pseudomy toma

438 Arachnoiditis Spinal operated upon twice 520 Argyll Robertson pupil I athogenesis of 420

Argyrosi of tarsal conjunctiva in infant 193 Arms Compound injuries of extremities 264 embolectomy

on arteries of extremities 367 Arsphenamine Rôle of in production of ocular lesions 110 Arteries Arterial collateral circulation 69 bilateral ob struction of central retinal 311 embolectomy on of extremities 367 preponderant rôle of abnormal in painful syndrome of hydronephrosis 545 terminal forcipressure of 561

Arteriosclerosis Temperature effect of popliteal vein liga-

tion in 150 Artentis Importance of surgical exploration of bifurca tion of aorta in differential diagnosis of certain types of obliterative 60 diagnosis and treatment of gan

grene due to obliterating in adult o Artery Ligation of common carotil r ligation of and concomitant vein in operations on large blood vessels 159 congenital aneurism of cerebral 314 extensive emboli m of pulmonary following fracture 367 oc clusion of coronary in Buerger's di ease 367 Tren lelenburg operation for embolism of pulmonary 426

4 6 closure of splenic 441 542 Arthriti Genesis and treatment of 63 gonorrh eal 150 acute painful ankylosing 263 etiology of rheumatoid 203 pathology and treatment of pyogenic 466 sur gical treatment of chronic infectious 457 See also

names of joints A phytia Treatment of in net born 146 Atelectasis Experimental pulmonary 18 postoperative

pulmonary 18 Avertin Volume of circulating blood in anæsthesia induced with 477

Axillary vein Primary thrombosis of 274 Azygos vein Accessory lobe of 425

BACILLUS proteus infections 370

Bacillus tuberculosis Types of in human bone an l joint tuberculosis 261 Bacillus welch i antitoxin Relation of to toxemia of in

testinal obstruction 331 Backache Lov and sciatica 266 \ ray examination of

lumbosacral region with reference to low 468 Bacteriophage Therapeutic use of in suppurative con ditions for 373 principles of applied to ostcomic

htas 553

PANGOVA Arch. f exper Path u I harmalol 1948 CXXXVI 158
Thymic colargement. H B SHAFE J Med Soc N Jersey 1940 xvi 124
Studies of the thymus with roentgen findings C W

lerkins Am J Roentgenol 1919 xxi 256
Observations on the treatment of the thymus gland in
infants and young children M J kinney and R G
Taylor Am J Roentgenol 1929 xxi 263

Surgical Pathology and Diagnosis

The chemistry and cytology of serous fluids A C FOORD G E YOUNGBERC and V WETMORE J Lab & Clin. Med 1920 xiv 417

Concerning the healing of woun is E L Hows J W Soay and S C Harvey J Am M Ass 1920 voi 42

Primary carcinoma of the fallopian tubes at Scott and M G Oriver J Lab & Cl. Med 1929 No

Experimental Surgery

The influence of physiological research on modern surgry J S Horsekev Lurginia M Month 1229 by on The effect of puncturing on the protoplast of living cells II Puncturing experiments on bird monocytes cultured in nine T PETERFI Arch I exper Zellforsch 1227 by 1825.

Bronchography according to passive technique 31

Bronchomycosis 317
Bronchopneumonia Oxygen in treatment of postopera
tive 373

Bronchescopy Lung abscess following tonsillectomy from standpoint of bronchescopist 122 problems in 122 past present and future of 210 in treatment of bronchectasis in children 427

BUOMEDICANS IN COMMENCE 427
Burgers disease Diagnoss and treatment of gangrene
due to obliterating artentis in adult 70 effects of
suprarenalectomy in gangrene of extremities 149
temperature effect of popitical vein ligation in thromboannits obliterans 150 coronary artery occlusion in
167

C ECUM Roentgenological study of inverted 437
Car arean section. In the Borough of Brooklyn. City
of New York 145 bacteral content of uterus at 145
under local anasthesia in cases of heart disease 248
low in placenta pravia reflexa during labor 240 in
Russia 175 1942 323 scope of 451 contra indica.

tions to 452
Calcium Estimations of in blood serum of mother and
child 347 manner of deposition of in development
of bone 465 effect of ether anasthesia and shock on

of blood 45c.

Canter Implantation of rat carcinoma and sarcoma with in being filtro adenoma. 6 relation of heredity to this irradiation of with cathode rays 160 increased mortably rate of 160 experiences in production of colloidal lead or salts of lead 160 their person of the original or salts of lead 160 their person of the results at Radiumlennmer; 5 direct and one results at Radiumlennmer; 5 direct and medicine; 315 bullogy and radiation of 3.8 stumil tancous presence of recent foci of tuberculosis and diaseminated carcinoma metastass 330 radium ther any of at Radium Institute of Paris. 60 colloidal judy with irradiation therapy of 50 See fait names

of organs Carcinoma See Cancer

Carotid artery I igation of common 1 Carpus Diagnosi and treatment of isolated tuberculo is

of 357 Cataract Proteins of lens and their chemical changes in pathogenesis of senile 6 ocular complications of dia betes 100 modern surgery of 412

Cathode rays Cancer treaduation with 162

Cauterization for cystic cervicitis 137 Cavernous sinus Thrombosis of 107 113 192

Cerebellum Hæmangiomata of 119 fossa sul arcuata as pa-sageway for infection from labyrinth to 414 function of 418

Cerebral artery Congenital aneursm of 314 Cerebrospinal fluid Blood in 16 tumor metasta 1 by 423

Cerebrum Abscess of 202 removal of tumors of 202 Cervical pletus Complete subcutaneous tear of 205 Cervicits Rebellous from cysts high in canal 43 cauten and 200 cervicits Rebellous from cysts, 130

Chest Streptothrat of 21 surgery of 22 mallgmant tumors of wall of 305 errors in interpretation of radio, rams of 213 surgical collapse of wall of in pulmonary tuberculous 318 pains in 420 value of synchroni zation in accurate diagnosis of die asset of 429 effects of large closed bilateral pneumothorax on lymph flow. 319 529 significance of changed pressures in 525

Choked disk Sre Papill rdema
Cholecystectomy For calculo is after passage of stone
234 surgery of gall bladder
235 late results of for
cal ullous cholecystitis 533

Cholecystitis Chromic 30 significance of hepatitis in relation to 232, amothe in pus of purilent calculous 321 late results of cholecystectomy for calculous 533 Cholecystography Functional tests and their significance 42 rentleten disamsus of pall bild/devinesses as a small

42 roentgen diagnosis of gall bladder disease 233 simil taneous non surgical drainage of gall bladder and in travenous 36 studie by in pregnancy 448 in cases of diabetes and alimentars, theosuma 480

Cholecystostomy Surgery of gall bladder 235 Choledochoplasty So called peptic ulcer of stomach and

Choleic acid enteroliths 531

Choleic acid enteroliths 531

Choleithiasus See Gall stones

Choroid Harmangioma of 111 Sattoma of 412 Chylangioma of lower limbs and external genital organs

370 Circulation Arterial collateral 69 of normal human kid

ney 254 Circulatory system Indications for interruption of preg

nancy in diseases of 449
Classife Fracture of 0.558
Cloquet's canal Visible in living 6 hæmorrhage into 6
Coggulation Blood changes vith respect to after splenec

Coagulation Blood changes vith respect to a fter splenec tomy in splenic anemia purpura hamorrhagica and acholuric jaundice 2,6

Coccidioidal granuloma 481
Colitis Ulcerative 227 220 437 531 chronic ulcerative associated with malignant disea e 229 tuberculous

associated with malignant disea e 229 tuberculo 530 Collapse and narcosis 47

Colon Surgicial treatment of di erticulitis 30 early diag no is of cancer of and rectum 33 34 sumple non specific ulcer of 130 polyposis of 130 131 rozni genology of 132 cancer of 220 jeunocolic fistula 227 submucous lipoma of 229 chronic ulcerative associated with malignant disease 229 diseases af fecting distil half of 231 discussion on diverticu

litis 238 surgery of in debilitated 334 transplanta tion of ureters into 353 chronic spa modic affections of and diseases they simulate 430 Colored pencils Injuries from 351

Colporrhaphy Improved technique for 240 Colposcopy Diagnostic value of 340 Common duct See Bile duct

Conjunctiva Argyrosis of tarsal in infant 193 large im plantation cyst of 310 inis prolapse from corneal ulcer treated by flap of 411 Contracture Treatment of Volkmann s 1 chamic 264

Contracture Treatment of Volkmann s 1 charact 264

Cornea Early development of 111 familial degeneration of 310 ins prolapse from ulcer of 411 Coronary artery. Occlusion of in Buerger's disease 36, Corpus luteum Ectopic 143 indications for operations

Corpus luteum Ectopic 143 indications for operations in lutein cysts associated with hydatidiform mole 344 Cotalgia Early contigen lesions of 357 Cota valga Dislocating 560

Cramoplasty Fitensi e by means of autoplastic osteopenosteal flap from tibia 4 by split nb method 309 Cystectomy Total in women 2,8

Cystectomy Total in women 2,8
Cystic duct See Bile duct
Cystitis Localized fibrous 353
Cystocle at mi bile nor treated by intermediate

Lystocele at middle age treated by interposition operation
343
(vstography in cases of pourse as children, see

Cystography in cases of pyuria in children 155 Cystopexy 463

Cystoscopy in carcinoma of cervix 130 Cystotomy Periodities and osteries of symphysis an I rami

of pubi follo sing suprapubic 65 Cyst See names of organs Basal metabolism in gotter at puberty 515 Basedo v s disease See Goiter Bauhin's valve Primary carcinoma of 437 Bayliss-Starling law Gastne ulcer and 412 Bernard Horner syndrome Frequency of 422

Biceps brachii Spontaneous dislocation and destruction of tendon of long head of 156

Bile acids in jaundice 440

Bile duct Duorienal irrigitions in cases of choledochus fis tula 134 so-called peptic ulcer of stomach and duodenum of dog following choledochopla ty 210 cystic dilatation of common 237

B le ducts Surgical lesions of bihary tract 36 337 sur gery of 235 medical a pects of disea es of 235 se quela and accidents of bihary surgery 23, congenital

atre 12 and stenosis of 236

Bile salts I'ffect of on contractions of uterus 144 Binary tract Mucoclasis and surgery of without drainage 36 surgical lesions of 36 hydatid cysts communical ting with 133 closure of abdomen without drainage after operations upon 134 sequelæ and accidents of surgery of 235 studies on fistulæ of 246 surgery of

337 closure of abdomen without drainage in opera tions on 533 Bilirubin Value of routine estimations of 232 a non touc

substance 439 Birth rate Medical aspect of falling 146 Indications from statistics on falling 146 biological aspect of falling

146 economic a pect of falling 146

Bismuth Intramuscular injections of in \incents anging 415 Bladder Some functional tests and their significance 42 cure of intractable vesicovaginal fistula by use of ped cled muscle flap 45 radium treatment of vesical carcinoma 55 muc parous glands in mucosa of urin ary 55 tumors of 153 bacteriological study of puer peral 153 formation of urethra from 154 roentgen study of in obstetrics and gynecology 233 relation of pressure in, to function of 236 bilateral d erticula of at ureteral onfices visualized with lipiodol 2,7 extrophy of complicated by carcinoma 257 clinical neurophysiology of automatic unnary and enuresis 25 epithelial neoplasms of unnary 257 total cys tectomy in women 258 expenences in abdominal surgical emergencies 338 submucous fbrosis of 353 stone in 354 surgical treatment of mahgnant tumors of 354 surgical treatment of tuberculo is of 356 genito-urinary fistula in female 445 diserticula of 456 pathology of neoplasm of 457 phys ology of micturition 463 primary suture in urological opera tions 461 malignant disease in diverticula of 550

keeping patient dry after ope ations on 550 Blepharospasm Surgical treatment of intractable 420 Blood In cerebrospinal fluid 16 etiological sign ficance of lowered sugar content of in vom ting of pregnancy 48 comparative serological studies of of cord and retroplacental 5t biochemical changes in following radium therapy 71 effects of X radiation on 150 hamatopoietic hormone in of anamic children 160 value of routine estimations of b brubin in 232 rela tion of platelets of to thrombosis after operation and partuntion 274 changes in after splenectomy in plenic aniemia purpura hiemorrhagica and achol uric jaundice with special reference to platelets and congulation 276 estimations of calcium in serum of mother and child 347 calcium content of at different stages of pre-nancy and in toucoses and p erperal di cases 347 postoperati e changes in and their im portance in development of thrombosis 368 funda mental principles governing clinical interpretation of

hæmatological diseases 360 hypergiveæmia in acute pancreatic necrosis 440 the influence of chemical studies of on present treatment of pregnancy to armias 450 effect of extravasated into body cavities 474 accidental transfusion of leukamic 475 deter mination of volume of circulating in ether averting and acetylene anæsthesia and its 5 gnificance 477 ef

fect of ether anæsthesia and shock on calcium of 482 Blood platelets Relation of to thrombosis after operation and parturation 274 changes in after splenectomy in splenic anamia purpura hamorrhagica and acho-lune jaundice 276 behavior of in labor puerperium and obstetrical complications 453

Blood pressure Venous 474 Blood transfusion Accidental from donor with leukamia

475 in treatment of surgical infections 564 Blood vessels Ligation of artery and concomitant vein in operations on large 150 of appendix 220 foreign protein in treatment of peripheral ascular diseases 274 innervation of 315 relief of stasis in inflamed by alkalies 476

Bone Unusual types of sarcoma of 262 development of

465 tuberculids of 553

Bones Differential diagnosis of sarcoma of long 62 problem of osteo-arti ular diseases of vasomotor origin 63 diagnosis and treatment of surgical tuberculosis in early childhood 157 determination of age of fetus from development of 250 ment-en ray therapy in primary malignant tumors and benign grant-cell tumor of ant types of tuberel bacilla in tuberculosis of ant anamic infarcts in osseous system and their significance with regard to theory of primary epiphyseal necroses 465 fractures of long treated by methods of R. Hamilton Russell, 472 See also names of bones and bone conditions

Brachial plexus Causes progress and treatment of obstet

rical paralysis 263 Brain Aftermath of head injuries 9 recession of choked disks following operations for tumor of 10 traum tic lessons of head in relation to ophthalmologist 117 artemovenous aneurs m of 117 intracranial tumors without choked disk 118 significance of petrous ridge deformation in rointgen ray diagnosis and localization of tumors of 110 diagnosis of intractanial lesions refer able to diseases of ear 194 thinogenic frontal lobe ab cess 202 differential diagnosis and treatment of cere bral states consequent upon head injunes 314 head injunes 314 congenital cerebral aneurism 315 cra mal and intracramal damage in newborn 350 transbuccal approach to encephalon 418 venous abnormal it es and angiomata of, 410 electrosurgery es aid to removal of intracranial tumors 410 malignant tumor of thymus with metastasis to central pervous

system 425 Breast Abnormal hyperplasia of female and its relation to tumor formation 18 chronic mastitis cystoadenoma and adenoma of 208 bleeding especially in male 208 treatment of carcinoma of 209 relation of chronic cystic mastitis to cancer of 317 postopera tive \ ray treatment of cancer of 425 interpretation of histology of 522

Bronchi Primary carcinoma of 123 b onchomycosis 317 treatment of chronic bronchopulmonary suppurative

lessons limited to one lobe of lung 427

Bronchiectasis In children 18 pseudorobust appearance in cases of associated with nasal accessory s nus suppuration 18 thoracic surgery 22 broncho-copic I catment of an children 427 treatment of chro ic bro chopulmonary suppurative lesions limited to one lobe of lung 427 chron c in childhood 427

culosis of 310 visual actity within area centralis and its relation to movements and fixation of 411 ocular symptoms in dengue 411 histological study of action of short waved light on 513

Fyeld Argyrosis of tarsal conjunctiva in infant 193 technique of Motais operation for pto 15 of 309

PALLOPIA the Dagnesie u e of into items nodared on injection combined with X rays as compared with perspective compared with X rays as compared with persterner CO2 insuffiction in obstruction of 43 contagenology of pelvis 4 torsion of with acute gangene 140 primary blatteral carenoma of 141 projected by torsion of 141 cyclical and other complexited by torsion of 141 cyclical and other confidence on 141 perspective of 141 cyclical and other own from 244 dangenous and treatment of sternlivy in women 245 pregnancy following exploration of by injection of lipsoid 214 treatment of pelvicus flat produces of personal personal personal for the personal persona

Tascia Sutures of for herma 325 326 internal fixation of fractures and dislocations with 359 suture with presented and tenden 420

preserved and tendon 430 Fat Histological findings following free transplantation of 381 Femur Chant-cell tumor of upper end of 65 operative

lengthening of 269 fractures of neck of 363 etiology of malformations of neck and head of 460 Fernitry Effect of experimental hyperthyroidism on re productive function 7

Fetus Effect of experimental hyperthyroidism on re productive function and progeny 7 determination of age of from degree of development of bones 250

diagnosis of deformities of in attero 539
Fever Alimentary 215

Fibro-adenoma Implantation of rat carcinoma and sar coma within benign 76

Fibromyoma 443
Fibula Tempheral nerve complications of fractures of

15 compound injuries of extremities 264 Fingers Fractures of 472

Testula Cure of intractable vesscovaginal by use of pedicled muscle flap 45 treatment of urethral by excision 56 rejunocolic 227 bilary 236 operative cure of oral 311 of uteris 330 chylangioma and chyle of lower limbs and external genital organs 30 biscital treated without secondary operation

Tleischer s familial degeneration of cornea 3 o

Fluorine Influence of on bony labyrinth of white mou e 196
Foot Excessive sweating of cured by sympathectomy 423

Forceps Causes of unsuccessful use of 48 contra indications to use of in labor 452 terminal forcipressure of artenes 561

Torearm Operation for making prehen ile after loss of hand 268

Fossa subarcuata as passageway for infection from laby nith to cerebellum 414

Inctures Peripheral nerva complications of 15 relaxed motion in treatment of 60 operative 1 eatment of recent 67 portable framefor suspension and traction of 61 lower externity 68 compound injuries of extremities 263 non-union of 270 ossification alter 339 internal fixation of by human fascial stutier 339 statistics on treated at Rizzoli Institute in period from 18590 to 1936 500 extensive pulmonary

embolism following 367 of long hones treated by methods of R Hamilton Russell 472 physical therapy aids in 479 treatment of with equilibrated s vinging traction apparatus 557 See also names of bones

ALL bladder Surgical lesions of biliary tract 36 Gall madder Surgery of bilary tract without drainage 36 expulsion of its contents as function of 38 how bils and empties itself 38 chronic 30 new working hypothesis for clarification of problem of 30 bihary intestinal anastomosis for obstructive jaundice 40 some functional tests and their signifi cance 42 relation of disease of to pregnancy 48 closure of abdomen without drainage after operations upon bile tract 134 534 reaction of human to food 233 roentgen diagnosis of disease of 233 cholecyst ectomy for calculosis after passage of stone 234 cancer of 234 relation between disease of and pan creatitis 235 sequela and accidents of biliary surgery 235 surgery of 235 medical aspects of diseases of 235 simultaneous non surgical drainage of and intravenous cholecystography 336 infrequency of primary infection in disease of 336 experiences in abdominal surgical emergencies 338 relation of disease of to diabetes 480

(all stones Relation of gall bladder disease to pregnancy 48 cholecystectomy for calculosis after passage of stone 234 surgery of biliary tract 137

Ganglioneuroma Tumors of autonomic nervous system

121 of alimentary tract 225
Gangrene Diagnosis and treatment of due to obliterating artent in adult of effects of suprarenalectomy in of extremities 149 treatment of 161 juvenile

Gastrectomy Later results of partial 28 recurring ulcers following partial 12 technique and results of partial for chronic gastic ulcer 223 partial for proptic ulcers coincident with lymphocarcoma of stomach 329 complete for carcinoma of stomach 329.

330 complete for carcinoma of stomach 455 Castro-enterology Status of roentgenology in 216 Gastro-enterology Status of roentgenology in 216 22 for chronic peptic uter 27 with transverse jejunal jucksion 126 postoperative jejunal ul ers

129 effect of on motor and secretory functions of stomach 215 ulcer of stomach and duodenum after for such lesions 318 gastic carcinoma after for ulcer 432 late intussusception of bowel into stomach after 432 Castro-intestinal tract. Some functional tests and their

castro-intestinal tract some functional tests and their significance 42 status of roentgenology in gastro-enterology 216 ganglioneuromatosis of 225 Castro-enumerostomy See Castro-enterostomy

Cential organs. Value of vas injection in chronic infections of 154 surgical treatment of tuberculosis of 356 458 chylangioma and chyle fistulæ of external 370 clations between appendix and with regard to a cinoma and p

inflammatory tumors of submatillary 107 relation of parathyroid to thyroid in hyperthyroidism 312 disorders of lymph 371

Glaucoma Acute use of tension following use of adrenalin in to8 etiology of 100 modern preparations in treatment of 310

Glycosura Cholecystography in diabetes and alimentary

Goster Pre operative treatment of Graves disease by combination of iodized fatty acid and vitamins \(\) and \(\) 100 incidence and characteristics of endemic in rabbits 415 heat production in endemic, in rabbits D CRYORHIAOSTOM Plastic, 193
Deafness Deafened areas in normal ears 113 nature of progressive 193 working hypothesis for research in otosclerosis 105

Dengue Ocular symptomatology in 411

Descemet a membrane Early development of 111 Diabetes Ocular complications of 109 and hyperthyroid 15m 114 relation of liver and gall-bladder disease

to 4% Diaphragm Hernia of 230 338 reentgenological diag nosis of herma of 338 function of 441

Diathermy Physical therapy aids in fracture and ortho pedic cases 470 Dislocations Internal fixation of and dislocations by use

of human fascial suture 350 See also names of joints Diverticulitis Surgical treatment of 30 discussion on 228 Diverticulosis Of appendix and pseudomytoma pentones 32 multiple diverticula of small intestine 331

Duodenum Alkalosis in patients with peptic ul er 25 surgery of ulcer of 26 27 220 328 chrome peptic ulcer 27, double ulcer of 30 recurring ulcers follow ing partial gastrectomy 127 rare complications of acute appendicitis 132 duodenal irrigations in cases of choledochus fistula 134 rupture of aneurism of abdominal aorta into 159 duodenal drainage and duodenal feeding in uncontrollable vomiting of pentonitis 214 effect of injections of hydrochloric acid on mucosa of 217 acute perforations of 219 so-called peptic uker of following choledochoplasty 210 death from perforation of ulcer of in case of splenectomy for hæmatemesis and purpura, 275 ulcer of 327 results of su gical treatment of ulcer of 328 ulcer of after gastro-enterostomy for such lesions 328 diver ticula of 222 dilatation of or chronic obstruction of of congenital origin 332 non malignant turnors of 333 perforated peptic ulcer of jejunum following per foration of ulcer of 334 experiences in abdominal sungal emergencies 338 visceral fistula treated with out secondary operation 442 results of resection of stomach for ulcer of 527

Dura Osteoplastic endothelioma of 419 Dysphagia due to pharyngeal paralys s 198 321

AR Otological observations in trauma of head i E marked dealened areas in normal 113 injuri sof aris a g from fractures of skull 194 diagnosis of intracra mal lesions referable to d seases of 194 influenzal 195 mechanism of pain transmission in certain types of otaless 106 influence of fluorine on bony labyrinth of white mouse 196 labyrinthitis complicating sup puration of middle 196 vasomotor affections of in ternal, of 413

Lechymoses Hamatemesis and spontaneous 275 Lehinococcus cysts Communicating with biliary tract

133 radiological diagnosis of hydatid infection 4,8 Eclaropsia Comparative study of certain gynecological and obstetrical cond tions in colored and white races

342 use of morphine in 348 Elbow Pempheral nerve complications of certain fractures 15 di locations and simple fractures of 67 arthrot omy of supplemented by section of lateral haments and temporary posterior dislocation for treatment of articular chondromatous and to facilitate certain osteosyntheses 267 fractures of though or nea lower epiphysis of humerus 2 o fractures of 36 operative treatment of traumatic ulnar neuritis at 422 mechanism of fractures and dislocations in region

Electrosurgery as aid to removal of intracranial tumors

Electrotherapy Physical therapy aids in fracture and orthopedic cases 479

Elephantiasis 276 Embolectomy on arteries of extremities 367

Embolism, Extensive pulmonary following fracture 167 obstructive pulmonary successfully operated upon 426 Trendelenburg operation for polmonary end result in of pulmonary artery cured by Tren delenburg operation 4 6 surgical treatment of thrombo embol c disease 561 Empyema Acute treated by continuous tidal irrigation

and drainage dependent on normal respiratory move ments 20 thoracic surgery 22 in infants under two years of age 212

Endometrio is following salpingectomy 241

Endometrium Adult human in tissue cultu e 137 autotran plantation of in eye of rabbits 137 hyperplasia

Enteroliths Chole c acid 531 Enterostomy Relative mechanical stre gth of performed

with and without clamps 225 Enuresis Neurophysiology of automatic unnary bladder and 257

Ephedrine in spinal anæsthesia 547 Epicritic sensation, Comparative anatomy of and proto-

pathic sensation 424 Epscidymis Primary adenocarcinoma of 155 surgical treatment of lower genital tract tuberculosis 356 surgical treatment of urogenital tract 458 tubercu

losis of genital tract 458, tuberculosis of 460
Epididymitis Comparison of results of various treatments for acute gonorrhoral 154 pathology of 460 septic

Epilepsy Aftermath of head miunes o

Epiphyses Anamic infarcts in osseous system and pri mary necrosis of 465

Epispadias Surgical treatment of Infemales 354 treat ment of male 462 Ergot Preparations of used in obstetrics and gynecology

Erys pelas Etiology of 481

Ether Late convul ions due to 2 determination of of ume of circulating blood in anithesia induced with 477 effect of anæthesia and shock on calcium of blood 482 Ethmoid Operative approach to in treatment of chronic

maxillary sinus infection 197 roentgenological 8 ms indicating extension of infection from to base of skull 415 roentgenograms of by oblique method 56

Ethmoditis Chronic 113 conservati e and surgical treatment of chronic 113 in infants and young chil dren with eye and orbital complications 106

Ethylene A means of intercepting explosions of 373 Exonhthalmic goiter See Goiter

Exophthalmos Pulsating of Explosions Means of intercepting in anæsthetics 373

Eye Ultraviolet light in treatment of ophthalmic disease 5 reconstruction of contracted socket of 108 infec tion of too ocula complications of diabetes 100 rôle of arsphenamines in product on of lesions of 110 therapeutic use of tuberculin in tuberculosis of 110 protein therapy in ophthalmology 110 tuber culosis in relation to 110 early development of an tenor chamber of 111 intra enous use of typhoid paratyphoid vaccine in diseases of III traumatic lesions of head and the r relation to ophthalmologist 117 autotransplantation of endometrium in of rabbits 137 ethmoiditi in infants and young chillren with complications in 196 perforating injunes of an young children 309 tub reulin therspy in tuber large size in of boy 226 multiple diverticula of small 331 phlegmons of small 332 late intussusception of into stomach after gastro-enterostomy 432 sarcoma

of small 438 choleic acid enteroliths 531 Intestines Aseptic method of anastomosis of 29 biliary intestinal anastomosis for obstructive jaundice 40 pressure in in obstruction 128 tuberculosis of causing obstruction 128 late stenosis of following strangulated herma 120 experimental studies in intestinal obstruction and toxemias 129 status of roentgen ology in gastro-enterology 216 cancer of 226 cor relation of recent experimental studies and clinical applications regarding obstruction of 330 body fluid changes due to upper obstruction of 331 relation of bacillus welchu antitoxin to toxizmia of obstruction of 331 toxemia of obstruction of 331 experiences in abdominal surgical emergencies 338 I hilip 53 ng Phy ick and lateral anastomosis of 407 benign ob struction of 43a study of surgical cases of obstruc tion of 528 tuberculous enterocolitis 530

Intussusception Late of bowel into stomach after ga tro enterostomy 432 non operative treatment of 435 polypoid adenocarcinoma of jejunum with acute

436 leiomyoma of Jejunum with 436 lodine Effect of on thyroid gland 6 effect of continued administration of and other salts on weight and growth of body 199 pre operative treatment of Graves disease by combination of judized fatty acid and Vitamines A and D 199 effect of on experimental hyperthyroidism in man 312 effect of on endemic gotter in rabbits 415 in prevention of recurrent goster 416 results of goster prophylarus 514

Indipin See Indized oil

Iodized oil Diagnostic use of intra uterine injection of combined with X rays as compared with perutering CO insufflation 43 roentgenology of pelvis 45 in diagnosis of stenlity in female 245 pregnancy follow ing exploration of tubes by injection of hipsodol 24 bilateral vesical di erticula at ureteral orificies vis ualized with lipsodol 257 bronchography by pas ive method 317

Ins Sarcoma of 310 prolapse of from corneal ulcer treated with conjunctival flap 411 MCSO\ Horatio Gates and resection of superio

Jaundice Bihary intestinal anastomosis for obstructive 40 blood changes after splenectomy in acholunc

276 harmorrhagic diathesis of obstructive and its treatment 336 bil acid in 440

Jaw Osteomyelitis of superior mavilla in nursing infant

4 Horatio Gates Jameson and resection of superior marilla 189 orthopedic problems of lowe with special eference to unilateral shortening 192 adam antinomata, 192 Jejunum Su gery of all er of 26 recurring alcers following

partial gastrectomy 127 effects of injections of acid partial gashieves of the stomach 129
po toperative ulcers of 120 etiology pathology
ymptoms and liagnos of ulc rs of 220 jejunocol c
listula 22 pathogenesis and t catment of pept c ulce of 333 roentgenological s gn of ulce of 333 arcinoma of 334 periorated peptic ulcer of follow-ing perforation of ulcer of duodenum 334 polypor1 atlenocarcinoma of with acute intu usception 436 leiomyoma of with intu usc ption 436

foints. Problem of osteo articular diseases of vasomotor origin 63 diagnosis and treatment of surgical tuber culos; in early childhood 15 types of tubercle bacilli in tuberculosis of 261 cytology of synovial fluid of normal 263 statistics on fractures of treated at Rizzoli Institute in period from 1899 to 1926 360 so-called chondromatosis of capsules of 466 interposition of fixed cartilage between bone stumps for production of nearthrosis 555 See also names of joints and joint conditions

Jugular bulb I rimary thrombosis of 107

KIDNEY Surgical pathology of malformation of 52 carbuncle of 53 pyelographic diagnosis of tuber culosis of 53 uretero ureterostomy as applied to obstructions of duplicated upper unnary tract 54 method of infiltration anasthesia for surgery of traumatic rupture of left 149 suprarenal renal heterotopia 149 roentgen picture of horseshoe 150 surgical pathology of malformations of 150 horse shoe 150 tolerance of of trauma and infection 150 neoplasms of 152 non surgical tuberculosis of 152 surgical pathology of malformations of 254 circula tion of normal human 254 grant renal calculus with epithelioma in horseshoe 254 tuberculosis of and healing of tuberculous nephrectomy wounds 255 conservative surgery of 255 teratoma of 255 con genital ectopic as tumor prævia in labor 348 bilateral tuberculosis of 3,2 attempt at histochemical decom position of albuminous stones in pelvis of 352 role of function of in urological surgery 454 physiology of milking muscle of 454 diagnostic significance of ampullary renal pelvis 455 obstruction to venous circulation in caused by distention of pelvis and calyces 455 resection of 456 surgical treatment of urogenital tuberculosis 458 primary suture in ur ological operations 463 necrosis of cortex of in toricosis of pregnancy 539 urea tolerance test as index of function of 544 function of in unilateral disorders of 545 disturbances in evacuation of pelvi of and recurrence of calculi 546 spindle celled sarcoma of in adults 546 new method of paraverte bral anasthesia for operations on 547 nephrectomy under spinal anasthesia in tuberculosis of 547

knee Therapeutic pneumarthrosis in intra articular le sions of 358 fractures involving 364 prevention of deformities of in arthritis 267 end results of arthroplasty of 269 pathogenesis clinical aspects and treatment of flail in relation to collateral tibual ligament 555 Koeppe nodules Nature of so called 110

kupfler cells in liver of laboratory animals 132

LABOR Causation management and end results of unsuccessful forceps cases 48 how far unsuccessful forceps cases can be prevented by efficient antenatal care 48 need for higher standard to prevent un successful forceps cases 48 long 144 anæsthesia in obsteines 144 possible explanation of cause of 144 rigid and stenosed cervit in first stage of 144 placenta prævia refleta during 249 relation of blood platelets to thrombosis after operation and parturition 274 congenital ectopic kidney as tumor prævia in 348 regional anzisthesia in obstetrics 349 controllable spinal anaesthesia in obstetrics 349 scopolamine anasthesia in second stage of abnormal 450 problem of vertex occupitoposterior position 450 behavior of blood platelets in 453 spina bifida occulta and rup ture of symphysis of pubis in 541 induced premature in contracted pelvis 541

Labyrinth Influence of fluorine on bony of white mouse 196 fossa subarcuata as passageway for infection

from to cerebellum 414

415 effect of admini tration of iodine on endemic in rabbits 415 prevention of recurrent 416 results of prophylaxis of 514 basal metabolism in at puberty 515

Congression of results of various treatments for acute epid dymitis due to 154 arthritis due to 136 treatment of pelvic infections 343 pyretotherapy in by inducing aseptic abscess 355 relation of local and general treatment of in female to extension of condition to uterine adness 411

Cranuloma Coccidioidal, 481 Craves disease See Goiter

(rowth Fffects of continued admini tration of iodide and other salts on of body 199

Cynecology Use of radium in 46 present status of ergot question with particular reference to preparations used in vi roentgen study of bladder in 253

H-EMATEMESIS And spontaneous ecchymoses 275 Hamatoma of antenor abdominal wall 430

Hematometra 137 Hæmorrhage Methods of estimating hability to post

operative from unsutured wounds 114 spinal dag in ger thrust as initial symptom of subarachnoid 201 spinal meningeal 201 hamorrhagic diathesis in child simulating chronic gastric ulcer 2 5 treatment of hæmorrhagic diathesis of obstructive jaundice 336 etiology of accidental and placental infarction 540

See olso names of organs Hamorrhoids Injection treatment of 533

Hallux valgus 471

Hand Operation for making forearm prehensile after loss of 268 excessive sweating of cured by sympathectomy

Head Aftermath of injuries of g, otological observations in trauma of the traumatic lesions of and their relation to ophthalmologist, 117 prosthetic aids in recon structive surgery about 300 considerations on injuries of 314 differential diagnosis and treatment of cerebral states consequent upon injuries of 314

Heart Abdominal exsarean section under local anothesia in disease of 248 rupture of from pyamic absces in myocardium 417 indications for interruption of pregnancy in diseases of circulatory system 440 present status of surgical procedures in chronic val

vular disease of 524

Heat production in rabbits with endemic goiter 415 Hehotherapy Physical and biological problems in 277

m pentonitis 568 Hepatic duct See Bile duct

Hepatitis Value of routine estimations of blood bilirubin in toric 212 significance of in relation to cholecystitis

Heredity Relation of to cancer 162

Hernia New principles and procedures in repair of 124 late intestinal stenosis follo ing strangulated 120 rare complications of acute appendicitis 132 chaphrag matic 230 radical operations for inguinal and femoral 322 fascial sutures for inguinal 325 experiences in abdominal surgical emergencies 338 roentgenological diagnosi of diaphragmatic, 338 strangulated femoral, 430 muscle fascia suture with preserved fascia and tendon 430 tubo-ovarian inguinai, 538

Herniotomy Experiences with purely fasci 1 326 Heterophona Concomitant strabismus and 300

Hip Treatment of tuberculous disease of 127 diagnosis and end results of tuberculosis of 157 spontaneous di locations of during early life 271 operat on for old or arreducible congenital dislocation of 272

adaptive changes in in congenital dislocation and their importance in treatment 2 2 operation for reduction of certain types of congenital dislocation of 272 early roentgen lesions of coxalgia and osteochondritis of 357 irreducibility due to interposition of soft parts in congenital dislocation of 352 Lorenz forking procedure and its field of application, 363 end results of extra articular fixation of tuberculous in children 472 treatment of congenital dislocation of by open operation 473 dislocating cora valga

560 Histamine and infection 278 Hodgkin's disease End results in and lymphosarcoma 371 some disorders of lymph glands 371

Hormone Evidence of hæmatopoietic in blood in anamic children 160 female sexual 244 test for pregnance

247 preparation chemical properties and effects of of anterior lobe of pituitary 311 Hospitals Early development of 77 how social service

of supplements treatment 482 Humerus Ter pheral nerve complications in fractures of is fractures of elbow through or near lower en physis

of 270 fractures of upper end of 360 Hydatid cysts See Echinococcus cysts

Hydatidiform mole, Indications for operation in lutein cysts associated with, 344

Hydrarthrosis Genesis and treatment of 63 Hydrocephalus communicating 200 phylogeny and

pathology of, 200 Hydrochloric acid Effect of injections of on gastric and duod nal mucosa 217

Hydronephrosis Conservative operations for 52 study of by ureterography 52 routes of absorption in 455 results of operations for painful syndrome of 545 Hyperelycamia in acute pancreatic necrosis 440

Hypernephroma Bilateral of ovary 44 primary ex trarenal 454 Hyperthyroidism Effect of experimental on reproductive

function and progeny 7 diabetes and 114 relation of parathyroid glands to 312 effect of iodine upon experimental in man 312 Hypoglycamia Etiological significance of lowered content

of sugar in blood in comiting of pregnancy 48 Hypophysis Results of replacement therapy after removal of inpuppy 120 route of absorption of active principles of posterior lobe of 120 preparation chemical prop erties and biological effects of hormone of anten r lobe of 341 tradiation of ovaries and in disturbances

of menstruation 342 Hypospadias Treatment of male 462 Hysterectomy Late postpartum hemorrhages treated by immediate 541 grave puerperal infections cured

TLEOC ECAL valve Primary carcinoma of 437

lieum Diverticulum of 130 Infantile paralysis See Poliomychtis

Infarction Anima: in osseous system and its significance a th regard to primary epiphyseal necroses 465 Infection Therap utic use of bacteriophage in suppura

ti e conditions 161 histamine and 278 due to bacillus proteus 3 9 blood transfusion in treatment of surge

cal 564 Influenza Earin 195 Insulin Pregnancy toxicosis treated with 250

by 542

Interposition operation Impro ed techn que of Watkin 240 cy tocele at middle age treated by 341 for prolapse 443

Intestine Relative mechanical strength of enterostomics performed with and without clamps 226 cyst of Metritis Treatment of by intramucous and submucous injections of vaccine 535

Mictintion Physiol gy of 46 t

Morphine U e of in eclamp in 348 Mortality Presention of maternal in Manit by 148 value of study of 215 contagion trauma and auto infection in causation of maternal from puerperal

Motal op ration Te hnique of for ptosi 309 Mouth Cancer in and about 10 operati e cure of oral

fistulæ 211 Mucoclasis and surgery of bihary tract without drainage 35 Muscle Surgery of and tendon in relation to infantile

paralysi 4 I Muscle fascia suture with preserved fascia and tendon 430 Musculospiral nerve Tempheral nerve complications in

certain fractures 15 Mycoses Histological forms of internal human (

Mychits Compression with severe scolio es 203 Myocardium Rupture of heart from pyæmic absces ID 42

NASOPHARYN's Malignant tumor of 514 Nearthrosis Interposition of fixed cartilage bet een

bone stumps for production of ess leoplasta. Non genetic appearance of various types of in experimental animals 2 8

rephrectomy Stump of preter after sa Erastus B Wol cott and 103 healing of tuberculous wound 255 primary suture in urological operations 403 under spinal anasthesia in renal tuberculo is 54

Vephritis Staphylococcal suppurati e 53

rephropery Therapeutic value of 45; erve Complications in musculo piral due to fracture
15 complications of popheal lue to fracture
15 correction of defect due to paralysi of third 303 optic neuritis folloving phenoidal s in itis located by differential exploratory test 41 operati e t eat ment of traumatic neuritis of uln r at elbo malignant neurol lastoma of sympathetic a 3 urgers of sympathetic in extremities 423 origin of turn r

of acoustic 510 herves Complications in peripheral in fractur anterior root sen ibility 203 effect of tret hing on function of 22 complete sub traneous tea of cervical plexus 20 anatomicohistological tudy of effects of remo al of periocurial sympathetic 20 depressive influen e of ympathetic on 1,2 in accitity

21 innervation of vessels 31, rel ef of pa n by tion of 520 Aeryous system Tumors of autonomic 121 malignant tumor of thymus with pe ul ar metastisi into central

423 malignant thymoma with metasta 1 to e tral 520 experimental physiop thology if stomach a related to 526

Neuralgia Operation for radical cure of trigeminal 203 You oblistoma Tumors of auto tomic nervou syst m Neuronbromatosi of right orbit 193

euroma Retroperitoneal ganglion c

henborn I flect of experimental hyperthy o di m on 7 treatment of a phy ia in 46 fite of ch liren t orn prematurely 2 3 cau es p ogre and treatment of obstetrical paralysis 253 ransal nd intrac nial dama e in 350 meninge l hen ha e of following spontaneous delivery 542 true cau e of fatal me n ni cal harmorrhage in 542

lose Recent fractures of 4 nas pharyn eal p demi s in public school 6 rhinogenic f ontal I be al scess 202 prevention of deform tie o following submucous Operation 414

BSTFTRICAL paraly: Lactors in production progress and treatment of 261 Obstetrics I resent status of ergot question, with particular ref rence to preparation use lin 51 and the ia in 144 foenigen study of bladle in 53 regional

an thesia in 349 controllable spinal and thesia in

Occiput posterior no ition I roblem of ve tex 450 (Lsopha o copy 1 roblems in 122

(I'sopha u Thoracic surgery 22 syphilis of 212 ulcer ation of 213 stricture of from lye poisoning 320 congenital steno is of 428 experimental study of

certain visceral ensations 481 peptic ulcer of \$24 Offspring Injury to from roentgen irradiation 538 Of hausen operation for retroversion of uterus at

Onnhala nesenteric du t. Ler istent 415 Operation Pulmonary atelectasis followin, 18 Olshausen

for retroversion of uterus 43 methods of estimating hability to postoperative hemorrhage from unsutured sound Ita inadequacy of Weber Ramstedt in pyloro pa m 21 improved technique in colorrhaphy and Watkins interpolition 240 relation of blood platelets to thromb sis after 274 experimental pro duction of absce s of lung after 318 cystocele at middle and treated by interpolition 343 Lorenz forking prodecure and its fild of application 363 changes in blood after and their importance in de velopment of thrombos; 368 ovygen in treatment of bronchopneumonia after 3,3 Trendelenburg for pulmonary embolism after 425 476 interpo ition for prolapse 443 physical measure as adjunct to

surgery 4 9 Ophthalmolory I rotein therapy in 110 Optic canal 1 racture of 101

Optic chia m. I ffect on certain syndromes of tumor of Ara Optic fo amen Trans phenoid approach to 193

Optic nerve. In observent of folloring sphenoidal sin usiti locate l l y differential exploratory test 41, Orbit Recon truction of contracted socket of eye ros fra tu e of optic canal 103 neurof bromatosis of

right 193 ethmoidit s n infants and young children with a companying complications in of

() chiti F aumatic a mi nomer 461 () te ti Multipl cystic tuberculou 554

O teitis def rm n Osteitis fil ro a and 3 3 O testis f brosa and osteitis defo mans 275

() teomyelitis Unusual forms of 261 acute in chilshood 35/ principle of bacte ipphare applied to 553

Otalia Mechani m of prin transmission in certain types of 100 Otiti media I roduction of and labyrinthitis in rabbits 10

Otosclerosi Working hypothe is for research in 10.

pathology of 195 41 Oranotomy Nathan Smith and 303 Ovary Present status of ovarian therapy 141 autotrans

plantation of into cavity of uterus 143 hormone of 244 intra abdo ninal bilateral hemorrhages from 340 arradiation of and hypophysis in disturbance of menstruation 342 indications to operation in cases of latern cysts a so rated with hydatidiform mole 311 relations between appendix and genitalia 1 1th rega d to car moma and p en lomysoma 438 bilateral annohypernephroma of 44 acute pelys 445 tubo o a san in uinal hernia 538 injury to off sprin from roentgen i af ation of 538

O ulation Time of in menstrual cycle 214 Oxygen in treatment of po toperative bronchopneumonia

Labyrinthitis Diagnosis of intracramal lesions referable to diseases of ear 194 production of otitis media and

in rabbits 195 as complication of middle-ear suppu Lactation Ces ation of menstruation during 452 Landmarks in surgical progress Ligation of common

carotid-Amos Twitchell 1 nephrectomy-Frastus B Wolcott rog resection of superior maxilla-Horatio Gates Jameson 180 Nathan Smith and ovariotomy 305 lateral anastomsis of intestine— Philip Syng Physick 407 extirpation of parotid— George McClellan 500

Laryngectomy Varieties of skin flap in 8 two stage 417 Laryngofissure Intrinsic cancer of larynx operated upon

through, 116 313

227

Laryngotracheobronchitis Acute 210

Laryng Intensic cancer of operated upon through larvn ofissure 116 313 tuberculosis of 313 radium treat

tent of intrince carcinoma of 416

Lead Senerices with production of colloidal or salts
of 102, colloid and irradiation in cancer 569

Leg Portable frame for suspension and traction of fractures of lower extremity 68 compound injunes of extrem ities 264 chincal experience with tenoplasties on 268 etiology pathogenesis and treatment of ulcus cruns 278 embolectomy on arteries of extremities 367 chylangioma and chyle fistulæ of lower limbs 3,0 I ens Proteins of and their chemical changes in patholen

esis of senile cataract 6 isolation of third (gamma) crystallin in 111

Leucocytes Determination of vitality of in peritoneal exudate 430 Leukæmia Some disorders of lymph glands 371 accidental

transfusion of blood from donor with, 475 Ligament Pathogenesis clinical aspects and treatment of flail knee in relation to collateral tibial 555 Light Histological study of action of short waved on eye

Lindau's disease Case of 110 Lip Operative technique in plastic repair in cancer of

lower 197 Lipiodol See Iodized oil

Liquor hetylresorcinolis Bactencidal properties of 373 Layer Some functional tests and their significance 42 phagocytic cells (von kupffer) in of common lab oratory animals 132 hydatid cysts of 133 stream line phenomena in portal vein and selective dis tribution of portal blood in 133 actinomycosis of 233 splenic enlargement with cirrhosis of 238 results of study of roentgenograms of abdominal viscera, 238 phenoltetrachlorphthalein test of function of in late toxemia, of pregnancy 251 function of in pregnancy 346 447, occurrence of viscerosensory hepatic bile reflexes in pregnancy 447, rad ological diagnosis of hydatid infection 4/8 relation of disease of to diabetes 430 abscess of following appendicitis 531 multiple miliary abscesses of cured by laparotomy and vaccine therapy 532

Lobectomy Care of stump in 10 Lorenz forking procedure and its field of application

363 Lung Experimental atelectasis of 18 postoperative atelectasts of 18 surgery of 19 care of stump of in pneumectomy and lobertomy 19 thoracic surgery 22 chronicity of abscess of 122 abscess of following tonsillectomy from standpoint of bronchoscopist 122 primary carcinoma of bronchi 123 etiology of primary carcinoma of 123 etiology of abscess of 211 surgeon's point of view of after-effects of surgical procedures in tuberculosis of 211 physician's point of view of

after-effects of surgical procedu es in tuberculosis of 211 abscess of following tonsillectomy from stand point of roentgenologist 212 bronchomycosis 31 surgical collapse of chest wall as method of treat ing tuberculosis of 318 experimental production of postoperative ab cess of 318 selection of case of tuberculosis of for surgical intervention 118 surgical operations in fuberculosis of 318 expenmental study of abscess of 319 extensive emboli m of following fracture 367 Trendelenburg op ration for emboli m of 426 obstructive embolism of suc cessfully operated upon 426 congenital cystic disease of 426 treatment of chronic suppurat ve lesions limited to one lobe of 427 radiological diagnosis of hydatid infection 478 tuberculos s of and unilateral and bilateral pneumothorax in pregnancy 522 cyst of vith recovery following operation to perma nent dramage 523 clinical course and pathology of abscess and gangrene of 523 can er 523 strain on collateral in collapse therapy 523 significance of changed intrathoracic pre sures 525 surgical treat ment of thrombo-embol c disease 501

Lye poisoning Strictures of enophagus resulting from

Lymph Effects of large closed hilateral pneumothorax on flow of in chest 522 Lymph glands Disorders of 371 Lymphadenitis Symptoms due to mesentenc 326

Lymphosarcoma End results in Hodekin's disease and

MALIGNANCY See Cancer
Malleolus F actures of 363

Mandible Ses Jaw Mastitis Chronic 208 relation of chronic cystic to ean cer of breast 317

Mastoiditis Histopathology of 113

Maternal mortality Prevention of in Manitoba 148 contagion trauma and auto-infection in causation of from puerperal sepsis 252 Matilia, See Jaw

Maxillary sinus Dagnosis and treatment of chronic infection of 197 311 operative cure of chronic s p-puration of 311 formation and histological structure of cysts of 311

McClellan George and exterpation of parotid 500 Mediastinum Beha for of in unilateral pneumothorax

Melena and purpura treated by splenectomy 273

Meniere syndrome 513 Meninges Hemorrhages from spinal 201

Meningitis Surgical treatment of following traumata and infections to meningomyelitis in a heredosyphilitic patient following spinal anasthesia 161 Meningomyehits in heredosyphilitic patient following

spinal anaesthesia 161 Menopause Carcinoma of ut rus after 537

Menorrhagia Radium in treatment of carcinoma cervicis and intractable 241

Menstruation Cyclical and other variations in tubal epithelium 242 tim of ovulation in menstrual cycle 244 irradiation of ovaries and hypophysis in disturbances of 342 cessation of during lactation 452

Mesentenolitis Appendicular 214
Mesentery Clinical aspect of congenital malformation
of in child en 124 cysts of 326 symptoms due to

lymphadenitis of 326 Metacarpals Fractures of 472 mechanism of product on of fractures of base of first metacarpal bone 559

Metatarsals Epiphysitis of 555

Pubis, Periostitis and osteitis of symphysis and rami of following supripubic cystotomies 65 pina bifida occulta and rupture of symphysi of 541

Powpromen Bacteral content of Augina and I uterus on this day of normal 145 everyacial mictures in 140 auditoral of puri peral spits in New York City 147 bacteriological study of I hidder in 152 contained interest and auto infection as factors in material infection 252 calcium content of blood in oil cases of 347 incidence of purposed septicemas in Maxachusetts in 102 453 stereptococcal vaccines in treatment of septis in 1455 behavior of blood platlett in labor purerpium and cerebrococcal vaccines in treatment of septis in 1455 behavior of blood platlett in labor purerpium and cerebrococcal vaccines in treatment of septis in 1455 behavior of blood platlett in labor purerpium and cerebrococcal vaccines in treatment of septis in 1550 behavior of blood platlett in labor purerpium and cerebrococcal vaccines in treatment of septis in 1550 behavior of blood platlett in labor purerpium and cerebrococcal vaccines in the proposition of the position of the proposition of the pr

542
Pulmonary artery Extensive embolism of following fracture 307 obstructive embolism of operated upon successfully 426 Trendelenburg s operation for embol in of 426 end result in embol in of ured by Trendel

enburg operation 4 6 Pupil Pathogenesis of Argyll Robertson 420

Purpura Melaria and freated by plenectomy 4th recovery 275 hamatemesis and treated by plenectomy with death from perforation of duodenal ulcer 2 5 blood changes after splenectomy in 2 0 5 hoenlein Henoth 8 4 0

Pychtis Factors predisposing to in pregnancy 250 and pyclonephritis 351

Pyrlography 351 in diagnosis of renal tuberculosis 53 pitfalls in 260

Pyelonephritis 352 and urethral obstruction 151 pve litts and 351 Pyelovenous backflow and obstruction to venous cir

culation in kidney caused by distention of pell's and calyces 455
Pylorectomy 222 gastric ulcer treated by 1th Folya anastomosis 223

Pylone achalasia and peptic ulcer 125

Pylone stenosis Hypertrophic in infants 124

Pylorospasm Inadequacy of Weber Ramsted operation in 217 Pylorotomy Hypertrophic pyloric stenosis resulting from

Pyosalpinx cau ed by ovyuris vermiculari complicate l by torsion of oviduct 141

Pyretotherapy in treatment of gonorrheea by indu tion of aseptic abscess 355

Pyuria Cystography in of children 155

QUADRICEPS tendon Anatomical findings in rupture of 554

A MUM: Relation between structure and prognosis in cervical carronoms under treatment with 43 management of uterine malignance at Radium Initute of Univertity of Para 44 use of in gyre 100kg 46 treatment of twe ad terronoma which with 74 deepin of well protected radium pack. 4 re ults of treatment of carronoma of the control of the co

larynx 410 treatment of cancer of buccal cavity with 514 treatment of cancer at Radium Institute of I ams 56 colloi all kad combined with in treat ment of cancer 500 kadoum Institute of I am I a lium therapy in cancer

Radium Institute of Fari Falium therapy in cancer at 44 560
Radiumhermet Therapeutic method and results at 375

Radius I racture of lower end of in adults 559
Ramisectomy See Sympathectomy

Rattlesnake bite 161

Raynaud's disease Vasomotor and reflex sequelæ of unilateral cervical and lumbar ramisectomy in 315 associated with cancer of stomach 480

Rectum Farly diagno is of cancer of 33 34 diseases affecting that half of the colon 231 operation for carenoma of 323 333, 439 carenoma of 335 treat ment of prolapse of 439 experience at Liessen China in radical treatment of carenoma of 430 cause and

of with massive evudation 413
Retinal artery Bilateral obstruction of central 311
Retrognathism Attempt to treat inferior 513
Retropertioneal ganglionic neuroma 520
Rithnoscleroma 113

Rhinosporidium Linealyi Case of 309 Ribs Erosion of due to stenosis of isthmus (coarctation)

of aorta 561 Rountgen ray diagnosis. Some functional tests and their s gnificance 42 diagnostic use of intra utenne iodized oil miection combined with X rays as compared with peruterine CO2 insufflation in tubal obstruction 43 of pelvic conditions 45 study of hydronephroses by urete ography 52 pyelographic diagnosis of renal tuberculosis 53 significance of petrous ridge de formation in of brain tumors 119 of condition of colon 131 of horse hoe kidney 150 use of cysto-gram in pyuria of children 155 of lung abscess follo ing tonsillectomy 212 errors in interpretation of oentgenograms of chest 213 status of roentgenology in gastro enterology 216 fallacy of \ rays in ab dominal diagnosis 216 of gall bladder disease 233 results of study of roentgenograms of abdominal viscera 238 of sterility in women 245 pregnancy following e ploration of tubes by injection of hip todol 247 roentgen study of bladder in obstetnes and gynecology 2 3 bilateral vesical diverticula at ureteral onices visualized with lipiodol 23 pitfalls in urography 260 new method for obtaining lateral projection of last certical and first dorsal vertebre 265 prognostic signs in roentgenograms of tuberculous pines in children 265 bronchography according to passi e technique 317 of benign tumor of stomach prolap ing throu h pylorus 327 of jejunal an I ga trojejunal ulcer 333 simultaneous non surgical d amage of gall bladder and intravenous cholecas tography 336 of diaphragmatic bernia 338 pye lography 351 early roentgen to jons of coxalina and osteochon intis of hip 35 of extension of in fection from ethmoid and sphenoid sinuses to ba e of skull 41 value of synchronization in accurate of chest diseases 429 roentgenological study of inverted cucum 437 value of lateral roentgenogram in pregnancy 447 cholecystographic studies in pregnancy 448 of stricture and rupture of urethra 458 \ ray examination of lumbosacral region with reference

Oxygen therapy 373 5/3 O yuris vermicularis I yosalpinx caused by 141

DAN Rehef of by perve section 520

in acute n crosis of 440 Pancreatitis Relation between gall bladder disease and

Papillardema Recession of choked disks following operations for brain tumor 10 incidence of intracranial tumors without 118

Pancreas Structural and evolutive variations in during

fasting after transplantation and after resection of excretory ducts 41 some functional tests and their

significance 42 440 resection of 237 hyperglycaemia

Paraganglioma Tumors of autonomic nervous system 121 Paralysis Factors in production progress and treatment of obstetrical 203 correction of defect due to of third nerve 309 Parathyroid glands Relationship of to thyroid especially

in hyperthyroidism 312 Parotid gland George McClellan and extirpation of coo

Patella Interarticular dislocation of 273 Pelvis Roentgenology of 45 diffuse endometrioma of constricting ureters 47 comparative study of certain

gynecological and obstetrical conditions in colored and white races 342 treatment of infections of 343 acute 446 induced premature labor in contracted

Pencils Injuries from colored 381 I enarterial sympathectomy See Sympathectomy Pencarditis Suppurative from surgical viewpoint 428 Perstoneum Diverticulosis of appendix and pseudomyxoma

of 32 vaginal approach to 143 as related to peri tonitis 214 endothelioma of 431 relations between appendix and pseudomyxoma of 438 Pentonitis Pentoneum as related to 214 production of

active immunity against fatal outcome of expen mental fæcal 214 duodenal dramage and duodenal feeding in certain cases of uncontrollable vomiting in 214 determination of vitality of leucocytes in evudate of 430 sun t eatment of 568 Petrous ridge deformity Significance of in roentgen ray

diagnosis and locals ation of brain tumors 119 Pettit s anti poliomyelitis serum Virus neutralization experiments with 103

Phalanges Fractu es of 472 Pharynx See Throat

I hepoltetrachlo phthalein test of liver function in late toxemias of pregnancy 251 Phrenicectomy Surgical operations in pulmonary tuber

culosis 318 Physick Philip Syng and lateral anastomosis of intestine

Pineal gland Histological structure of 9 Pituitary extract Action of during pregnancy 144 Pituitary gland See Hypophysis

Plucenta Comparative serological studies of blood of cord and retroplacental blood 51 experimental study of premature separation of 24 da get of manual extraction of 2 r problem of cervical 539 etiology of accidental hemorrhage and infa ction of

540 Placenta accreta Anatomy genesis and clinical con siderations of so Placenta pravia Reflexa during labor 249 comparative

study of certain gynecolomical and obstetrical con ditions in colored and white races 342 Plant Vincent an ina Litology and etiological treatment

Pneumectomy (are of stump in 19

Pneumoly is Surgical operations in pulmonary tuber culo is 318 Pneumonia Oxygen in treatment of postoperative, 373

Pneumothorax Surgical operations in pulmonary tuber culous 318 s.lect on of cases of pulm nary tuber culous for sureral intervention 318 behavior of mediastinum in unilateral 522 pulmonary tuberculosis and unilateral and bilateral in pregnancy 522 effects of large closed bilateral on thoracic lymph flow 522 strain on collateral lung in collapse therapy 523

significance of changed intrathoracic pressures 52 Poliomyelitis Virus neutralization experiments with Rosenou s and Petitt's sera for 163 rôle of strep-tococci in experimental of monkey 2 8 surgery of muscle and tendon in relation to infantile paralysi 471 early diagnosis and treatment of acute sta e of anterior 552 prevention and co rection of deformity in infantile paralysis 552

Pophteal nerve Complications of due to fracture 1, Popliteal vein Temperature effect of ligation of in thromboangutis obbterans and artenosclerosis 150

Portal vein Stream line phenomena in and selecti e distribution of portal blood in liver 133

Pregnancy Relation of gall bladder di ease to 48 lat no sepsi in toxemia of 48 etiological significance of lowered blood sugar values in somiting of 48 an at thesia in obstetrics 141 effect of bile salts on automatic contractions of uterus and action of pi testary extract during 144 hormone test for 247 following exploration of tubes by injection of lipitedol 247 heart disease and 248 449 acute appendicutes with rupture of bilateral tubal 248 bilateral extra

uterine 218 structure and function of preter durin. 230, toxicosis of treated with insulin 250 factors predispo ing to pyelitis in 2 o phenoltetrachlor phthalein test of h er function in late toxemias of 231 roentgen study of bladder in obstetrics 2 3 reaction of body in 345 function of liver in 346 447 calcium content of blood at different stages of 347 value of lateral roentgenogram in 447 occur rence of viscerosensory bepatic bile reflexes in 447 cholecystographic studies in 448 diagnosis etiology and treatment of pernicious types of animia in 449 indications for interruption of in diseases of circulatory system 440 abdom nal pain in 440 influence of blood-chemistry studies on treatment of toxemias of 450 pulmonary tuberculosis and unilateral and bilateral pneumothorax in 522 anæmia in late 530 diagnosis of fetal deform ties in uter 539 severe anamia of 539 necrosis of renal cortex in toxicosis of 539 etiology of accidental hæmorrhage and plac otal infarction

540 Prostate Operati e treatment of abscess of 60 inter pretation of chronic infections of 258, phases of pathology diagnosis and treatment of carcinoma of 259 small carcinomata of 2 9 medical and sur gical problems a prostatic obstruction 355 surgical treatment of lower genital tract tuberculos's 356 cautery punch for p ostatic obstruction 458 surgery of 450

P ostatitis Chronic 154 posterio urethroscopy in diag nosis and treatment of chronic 550 Protein therapy In ophthalmology 110 in pempheral

ascular diseases 274 I rotopathic sensation Comparative anatomy of ep cnic

and 424 Pseudomy oma pent ner Diverticulosis of append v and

32 relation between appendix and 438 I tosis Technique of Motais operation for 309 Puberty Basal metabolism in goster at 515

Pub: Peroctitis and osterit of symphysis and rami of following uprapubic cystotomies 15 pina Fifi la occulta and rupture of 53 mphysic of 541

Peopremia Breteral content of x gen's and uterus of alth day of normal 44; evertal infections in 14 cutbreal of puerperal septs in New York City 14; cutbreal of puerperal septs in New York City 14; lacteriological siduly of bladd for in 53; contagion trauma and auto infection as factors in maternal mortality from puerperal septicema in Mars advantage of 34; incidence of puerperal septicema in Casas in treatment of sepsis in 45; behavior of blood platelets in labor puerperanum and certain obsterical complications 43; severe amarina of 539 treatment by this service amarina of 539 treatment by this service are serviced for the proper service and the service of the service of

542
Pulmonary artery I xtensive embolism of following fracture 367 obstructive embolism of operated upon successfully 436 Trendelenburg s operation for embolism of 436 and result in embolism of cured by Trendel

enburg operation 4 6

Pupil Pathogenesis of Vigyll Robertson 4 o Pupura Melana and treated by splenectomy with recovery 275 hamatemesis and treated by splenectomy with death from perforation of duodenal ulcer 2 5

blood changes after splenectomy in 2 0 Schoenlein Henoch 8 370

Pyelitis Factors pred sposing to in pregnancy 250 and pyelonephritis 351

Pytlo raphy 351 in diagnosis of renal tuberculosis 53 pitfalls in 260 Pytlonephritis 352 and urethral obstruction 151 Pyte

htts and 351
Pyelovenous backflow and obstruction to enous cir

culation in kidney caused by distention of pel is and calyces 455

Pylorectomy 222 gastric ul er treated by with Polva anastomo is 223

Pylone achalasia and peptic ul er 123

Polone stenosis Hypertrophic in infants 124 Polorospasm Inadequacy of Weber Ramsted operation in 217 Pylorotomy Hypertrophic pyloric stenosi resulting from

Pyosalpiny caused by oxyuris vermicularis complicated by torsion of oxiduct 141

Pyretotherapy in treatment of gonorrhom by induction

of aseptic abscess 353 Pyuna Cystography in of children 155

QUADRICFPS tendon Anatomical findings in rupture of 554

RADIUM Relation between structure and progno: in crirical caronoma under treatment with 43 in crirical of uterane malagnances at Radium Institute of uterane malagnances at Radium Colony of University of Paris 44 u. e. of in gone colony of University of Paris 44 u. e. of in gone colony of University of Paris 44 u. e. of in gone colony of University of Paris 44 u. e. of in gone colony of University of Paris 44 u. e. of in gone colony of University of Paris 44 u. e. of in gone colony of University of Uni

larynx 416 treatment of cancer of buccal cavity vith
314 treatment of can er at Rudium In thute of
13n 56' cilloidd leal combined with in treat
ment of cancer 5'0
I alum Institute of Lary 1 adium therapy in cancer

I a hum Institute of I an I adium therapy in cancer at 44 576 I a humbermet Therapeutic method and results at 375

Radius Fractures of lo crend of in adults 559 Ramisectomy See Sympathectomy

Rattlesnake bite 101

Raynaud's di ea e Va omotor and reflex sequela of uni lateral cera cal and lumbar ramisectority in 315 a sociated with cancer of stomach 480

Rectum Carly diagnosis of cancer 3 3 3 4 diseases
Early diagnosis of cancer 3 3 3 4 diseases
cancer and the color 3 4 operation for
carcinoma of 23 33 430 carcinoma of 33 territor
ment of prolapse of 430 experience at Giessen Cl nic
in radical titalment of tarcinoma of 430 cause and
prevention of unmany infections after excision of 430
greention of unmany infections after excision of 430

Retinal Process of differentiation of layers of invertebrates

11 hamangiomata of cerebellum and 110 traumat

1 an loopathy of 31 surgical technique for removal
of subretinal cysticercus 311 diagnostic and prog
portic significance of retinal hamorrhase 413 drease

of with ma sive evudation 413 Retinal artery Bilateral obstruction of central 311 Retrognatinsm Attempt to treat inferior 513 Retropentioneal ganglionic neuroma 520 Rhinoscleroma 113

Rhinospondium kinealyi Case of 300

Rhinospondium kineai) Case of 300 Ribs Erosion of due to stenosis of isthmus (coarctation) of aorta 361

Roentgen ray diagnosi. Some functional test, and their significance 42 diagnostic use of intra uterine iodized oil injection combined with X rays as compared with peruterine CO2 insufflation in tubal obstruction 43 of pel ic conditions 43 study of hydronephroses by urete o raphy 52 pyelographic diagnosis of renal tuberculosis 53 significance of petrous ridge de formation in of brain tumors 119 of condition of colon 31 of horseshoe kidney 150 use of cysto gram in pyuria of children 155 of lung abscess follow ing tonsillectomy 212 errors in interpretation of roentgenograms of chest 213 status of roentgenology in gastro enterology 210 fallacy of \ rays in ab dominal diagnosis 210 of gall bladder disease 233 results of study of roentgen grams of abdominal viscera 238 of sterility in nomen 245 pregnancy following exploration of tubes by injection of lip 10dol 247 roentgen study of bladder in obstetrics and gynecology 253 bilateral vesical diverticula at preteral ornices visualized with himodol 257 pitfalls in prography 260 ne s method for of taining lateral projection of last cervical and first dorsal vertebræ 205 prognostic signs in roentgenograms of tuberculou spines in children 265 bronchography according to passive technique 317 of lenish tumor of stomach p olapsing through pylorus 327 of jejunal and ga trojejunal ulcer 333 simultaneous non surgical drainage of gall bladder and intravenous cholecys tography 330 of diaphragmati hernia tography 330 of diaphragmati hernia 338 pye lography 331 early roentgen lesions of covalgia and osteochondriis of hip 35? of exten ion of in fection from ethmoid and spheno d sinuses to base of skull 415 alue of synchronization in accurate of chest d ea es 429 roentgenological study of inverted cæcum 43 alue of lateral roentgeno, ram in preg nancy 44 cholecystographic studies in pregnancy 418 of stricture and rupture of urethra 438 \ ray examination of lumbosacral region with reference

to low lack pain 468 of hydatid infection 4 8 cholecystography in cases of diabetes and alimentary glycosum a 480 of enchondroma of right transverse process of first lumlar vertebra 554 toentgenograms of spheno d an l ethmoid sinu es by oblique method 565

Roentgen ray treatment Relation between structure and prognosis in cervical carcinoma under 43 comparison of quantitative biolo ical effects of gamma and X rays 74 Some effects of on blood 139 experiences with production of colloidal lead or alts of lead 162 of cancer with cathode rays 162 of carcinoma of breast 200 425 of primary malignant tumors and benign grant cell tumor of bone 261 of actinomycosis 277 of ovaries and hypophysis in disturbances of menstruation 342 chemical and biological changes induced by X rays in body tissues 375 direct and indirect action of radiation on cancer tissues 3 6 cancer biology and 378 postoperative of cancer of breast 42, of utenne cancer 411 use of condenser dosimeter in measuring radiation over wide range of wave lengths 478 massive and hypermassive of skin cancers 4 8 injury to offspring from 538 increasing resistance against streptococcus sepsis

increasing resistance against streptococcus sepsis by 365 colloidal lead with, in malignant di ease 360 Rosenow's anti poliomyelitis serum. Virus neutralization experiments with 363

Russell R Hamilton Method of for treatment of Irac tures of long bones by 472

SACRO ILIAC joint Relation of arthritis of to sciat loa 469 Sacro-diac pain 469

Salpingectomy Ladometriosis following 24x

Salt solution Simple apparatus for continuous intravenous administration of physiological 72

Sarcoma Implantation of rat carcinoma and within be nign fibro-adenoma 76 studies on a new tran planta ble rat tumor 162 therapeutic methods and results at Radiumhemmet 375

Schoenlein Henoch's purpura 3,0
Sciatica Low backache and 200 relation of arthritis of

sacro-iliac joint to 469 Scolious Compression myelitis with severe 203 treat ment of 556 results of spine fusion for 556

ment of 556 results of spine fusion for 556 Scopolamine anasthesia in second stage of abnormal labor 450

Sella turcica Inclination of quadrilateral plate in normal and pathological 202 Seminal vesicles Value of vas injection in chronic genital infections 154 interpretation of chronic infections

of 258 surgical treatment of lower genital tract tuberculosis 356

Sensations Experimental study of certain visceral 45c Septicemia Otherak of pureprial sepais in New York City 146 contagon trauma and auto-infection as factors in material involving from pureprial 25 parameters of the properties of the properties of parameters of the properties of the properties of in treatment of pureprial 43,3 blood transfusion in treatment of surgical infections 364 intereasing result ance against streptheories sper 1 by Foreigne irradia ance against streptheories sper 1 by Foreigne irradia.

tion 565
Serum Virus neutralization experiments with Rosenow's and Petitt's antipoliomyelitic 163

Shock Effect of on calcum of blood 482 Shoulder New method of treating fracture dislocation of 138 lesions produced by forced abduction of 468 traumatic posterior dislocation of 472 treatment of fracture-dislocations of 538 Sinus Thrombosis of cavernou 10 113 101 diagnosis and treatment of chronic infection of massiller, 197 operative cure of chronic superation of maillary 311 formation and histological structure of cycle of maillary 311 opin neutris following sphenoil sunusitis located by differential exploratory examina too. 415

Sinus thrombosis Diagnosis of intracran al lesions referable

to diseases of ear 194

Sunses Pseudorobest appearance in cases of homoher tass associated with suppuration of nasal 48 acute suppuration in accessory follo of by cavernous sinus thrombosts, 113 rhanogenet forntal look aboves 202 effect on certain syndromes of chasmal tumotos effect on certain syndromes of chasmal tumochopical signs solutating extension of addressor from ethnicid and spheroid to base of skull 415 roemptoograms of spheroid and ethnical by oblegar many for the control of the control of the control of the control organs of spheroid and ethnical by oblegar many for the con-

505 Sinusitis Comparative study of chronic with end results

following intranasal operations 514

Skin Massive and hypermassive radiation in cancer of 478 ultraviolet light and cancer of 479 effect of periatterial sympathectomy on taking of autoplastic grafts of 563

Skell Methods of repa neg wounds of 4 oblogests observations in tunum of hand 111 relation of trau matic lesions of head to ophthalmologist 117 inspect of ear arising from fractures of 1,01 fractures of 309, cranoplasty by split tib method 309 cranol and intracranial damage in networm 300 recenting low ical signs indicating extension of infect on from ethomol and spheroid sinuses to base of 415

Smith Nathan and ovariotomy 305 Social service in hospitals as supplement to treatment 482

Spermatocele 2,9
Sphenoid Operative approach to in treatment of chronic maxillary sinus infection 197 coentgenological signs indicating extension of infection from to base of skull 415 optic neuritis following infection of located by differential exploratory test, 415 roent

genograms of by oblique in thod 55,

Spina bidda occulta and rup ure of symphysis of pub-

Spinal arachnoiditis operated upon twice 520 Spinal cord Clinical and pathological study of teratoma

tous cysts of containing mucus and cil ated cell 120 surgery of tumors of 32 late injuries of with 8 vers scolores 203 tumors of in childhood 421 indications and results of operative decompression of 510

Spine. Garcomyelius of 04, 408 certebral tumors & 63 gant-cell tumor of 05 rad cular syndrome in hyper to phic osteo-arthratis of 150 posttraumatic disease of verether of 55 prognostic segism recettgenogram of tuberculoss in childhood 365 new method for binning lateral propersion of last regardent extra objective of 161 post of

of first lumber vertebra revealed by roentgen exam matton 534 mysloma 1534 systems (Spleen Surgeal anatomy of vessels of 135 abace 36 fresults of study of roentgenograms of abdominal viscera 238 experiences in abdominal surrical emer

viscera 238 etheriences in additional surgical experimental generes 338 chinical physiology of 441 experimental studies of variations in volume and contractility of 441 circulation of 441

Solenectomy I or hæmatemesis and purpura 2 5 for melena and purpura 275 blood changes after in splenic anymia purpura hæmorrhagica and acholuric taundice 276

Splenic artery Closure of 441
Splenomegaly Diagnosis and treatment of chronic in childhood 135 unclassified type of in children 23 with cirrhosis of liver 238 typical hemolytic anamia with in children 238

Spondyhtis See Spine

Stenlity Diagnostic use of intra uterine indized oil in section with \ rays as compared with peruterine CO2 insuffation in 43 artificial production of 243 440 diagnosis and treatment of 215 2.8

Stenhaation Therapeutic 243 446 Sternum Fracture and d location of 158

Stomach Interpretation of pastne symptoms 3 mecha nism of production of pain in 23 alkalosis in patients with neptic ulcer 2, surgery of ulcer of 26 27 220 223 328 chronic peptic ulcer 27 pylonic achalasia and peptic ulcer 125 cancer of in patients over seventy years of age 123 carcinoma of 12 carcinoma and ulcer of 126 recurring ulcers of following partial gastrectomy 12 effects of injections of acid and trauma on jejunal transplants to 1 Q pathogenesis and surgical treatment of gastric crisi of tabes 206 effects of surgery of on subsequent motor an I secretory functions of 215 status of roent genology in gastro enterology 216 some stomachs I have met 21, diverticulum of 21, depressive influence of sympathetic nerves on acidity of 21 effect of injections of hydrochloric acid on muco a of 217 acute perforations of 219 o called peptic ulcer of in dog following choledochoplasty 219 ulcer of treated by pylorectomy with Polya anas tomosis 223 technique and results of partial gas trectomy of chronic ulcer of 223 pedunculated ex tragastric leiomyoma of with hamorrhagic degen eration 224 examination of content of as aid to hagnosis of carcinoma of 224 early cancer of etiology pathology symptoms and diagnosis of ulcer of and jejunum 226 acute postpartum dilatation of 2,2 hæmorrhagic diathesis in child simulating chronic ulcer of 275 roentgen observation of benign tumor of prolapsing through pylorus 327 diagnosis of syph ilis of 327 ulcer of 32 early recognition and treat ment of cancer of 328 ulcer of after gastro-entero tomy 328 recent advances in treatment of diseases of 329 partial gastrectomy for peptic ulcer coin cident with lymphosarcoma of 329 roentgenological signs of ulcer of and jejunum 333 experiences in abdominal surgical emergencies 338 consecuti e tests by fractional method of gastric analysis 43 late intussusception of bowel into after gastro entero tomy 432 problems in surgery of 432 fatal hamorrhage from ulcer of which could carcely be seen at autopsy 432 ulcer of and Bayliss Starling law 432 carcinoma of after ga tro-ente ostomy for ulcer 432 complete gastrectomy for carcinoma of 435 visceral fistula treated without secon lary oper tion 442 kaynaud's disease a ociated with cance of 4% experimental study of certain sceral ensa

ulcer of greater curvature 526 re ult of of for gastric and duodenal ulcer 52 Strabi mus Concomitant and heterophoria 300 Streptothrax of abdomen 21

Submaniliary gland Inflammatory tumors of 10

t ons 481 experimental physiopathology of a rel te i

to nervous ystem at physiopathology of gastric

secretion in small without pedi le 326 et ology of

Suppuration Bacteriophage in 373 uprarenal gland Heterotopia of 149 adenoma of adrenal cortes 544

Suprarenalectomy Results of in gangrene of extremities 140 chaical studies of 206

Surgery Physical measures as adjunct to 470 Sweating Excessive of hands and feet cured by sym

pathectomy 423 Sympathectomy End results of periarterial 121 effects of

removal of nermeutial symnathetic 206 clinical studies of 206 vasomotor and reflex sequela of unilateral cervical and lumbar ramisectomy in Raynaud's disease 315 innervation of vessels 315 investiga tions by capillary microscopy in penartenal 423 surgery of sympathetic in extremities 423 effect of periarterial on taking of autoplastic skin grafts 563 Sympathetic nerve Depressive influence of on gastric

acidity 217 surgery of in extremities 423 malignant neuroblastoma of 423 Synchronization Value of in accurate diagnosis of chest

diseases 420

Synovial fluid Cytology of of normal joints 263 Syphilis Meningomyelitis in heredosyphilitic patient following spinal anaesthesia 161 treatment of in mothers and children in welfare stations 350 path ogenesis of Argyll Robert on phenomenon 420

*ABIS Pathogenesis and treatment by neuroramisec Table Famogeness of 206

Tendon Original technique in transplantation of 26, muscle fascia suture with preserved fascia and 410 surgery of muscle and in relation to infantile paral vsis & 1 anatomical findings in rupture of quadri

ceps 554 Tendon sheaths Lipoma of 63

Tenonitis Brawny 103 Tenoplasty Chinical experience with on legs 268 Testicle Structure of grafts of four years and five months

old 25 adenocarcinoma of in adult 461 carcinoma

Tetanus Vaccination against with anatoxin for 4.6 treatment of wound in 503 cure of severe case of

postoperative by amputation 563 Thoracoplasty Physician's point of vie v of after effects of surgical procedures in pulmonary tuberculosis 211 selection of cases of pulmonary tuberculosis for surgical intervention 318 surgical operations in pulmonary tuberculosis 318 strain on collateral lung in collapse therapy 523 5 gnificance of changed intrathoracic pressures 52

Th oat Nasopharyngeal epidemics in public school 6 dysphagia due to paralysi of 198 321

Thrombo-anguitis obliterans Diagnosis and treatment of gangrene due to obliterating arteritis in adult effects of suprarenalectomy in gangrene of extremities 140 temperature effect of popliteal vein ligation in

59 coronary occlusion in 367 Thrembo is Early of bifurcation of aorta to importance of surgical exploration of bifurcation of aorta in differ ential diagno is in certain types of obliterative arteri tis and determination of treatment 69 primary of 1 rula bulb 10 aceptic cavernous sinus 10 92 acute suppuration in accessory sinu es follo +1 by ca ernous sinus 113 diagno-s of intracranial lesson referable to di ca es of car 194 relation of blood platelets to after operation and partuntion 2 4 primary of avillary vein 274 postoperative changes in blood and their importance in development of 368 surmical treatment of thrombo-embolic disease (6)

Thymoma Malignant with metastasis into central nervous system 520

Thymus Intensive study of 321 malignant tumor of with metastasis into central nervous system 423 Thyroid Effect of iodine and feeding of on 6 physiology

of 198 relationship of parathyroid glands to with special reference to hyperthyroidism, 312

Thyrodutis Acute 108 Thyrotoxicosis from internist a standpoint 516

Tibin I racture of spine of 58 compound in sunes of extremities 264 congenital pseudarthrosis of 470 Tibial ligament Pathogenesis clinical aspects and treat

ment of flail knee in relation to collateral 555 Tibiotarsal joint Total resection of 350

Immitus aurium Causes of 195 Tongue Radium therapy of cancer of buccal ca ity 514

Tonsillectomy Methods of estimating liability to post operative harmorrhage from unsutured wounds following 114 lung abscess following from stand point of branchoscopist 122 lung abscess following from standpoint of roentgenologist 212

Trachea Ciliary movement of studied in ritro 200

Tracheotomy Significance of silent 210 technique of and after care 425 Trendelenburg operation in pulmonary embolism 426 4 6

Trichomonas vaginalis Vaginal discharge due to 445 Trigeminal neuralgia Operation for the radical cure of 203 Tuberculin Use of in ocular tuberculosis 210 310 Tuberculosis In relation to eye 110 diagnosis and treat ment of surgical in early childhood 157 simultaneous

presence of recent for of and disseminated carcinoma metastases 379 See also names of organs Tularæmia 380 Tumors Of autonomic nervous sytem 121 stud es on new tran plantable of rat 162 non genetic appearance

of various types of neoplasia in experimental animals 278 action of radiation on blood supply of 375 See also names of tumors and organs Twitchell, Amos and ligation of common carotid i

Typhoid vaccine Intravenous use of in eye diseases 111 in treatment of peripheral vascular diseases 274

TLCERS Treatment of varicose by intravenous in sections 275 See also names of organs Ulcus crun Etiology pathogenesis and treatment of 278

Ulpa Compound injuries of extremities 264 Ulnar nerve Operative treatment of traumatic neuritis of at cibow 422 Ultraviolet light In treatment of ophthalmic disease

5 and general public 277 and 5kin cancer Umbilical cord Comparati e serological stud es of blood of and retroplacental blood 51

Uramia Effects of ureterovenous anastomos s with ref erence to production of 548

Urea Urea tolerance test as index of renal function 544 Ureter Diffuse pelvic endometrioma constricting 47 surgical pathology of malformations of 52 254 penstaltic and antipenstaltic movements in excised as affected by drugs 53 calculus of upper unnary tract treated by new methods 53 cystic dilatation of strangulated at urethral meature 53 uretero-ureteros tomy as applied to obstructions of duplicated upper urmary tract 54 stump of after nephrectomy 54 surgical pathology of malformations of 150 ligature of 152 diagnosis of calcult in 153 structure and function of during pregnancy 250 obstruction of in infancy 353 transplantation of into large intes tine 353 routes of absorption in hydronephro is with totally obstructed 455 supernumerary ectopic, 456 large extravesical stone which had perforated from 456 stricture of 256 primary suture in urological operations 463 activity of in pathological conditions studied by graphic manometric method 548 effects of ureterovenous anastomosis with reference to pro-

duction of urarms 548
Ureterography Study of hydronephroses by 52 Uretero-ureterostomy as applied to obstruction of dupli

cated upper urmary tract 54 Urethra Diverticula of 56 treatment of stricture and

fistulæ of by excision 50 pyelonephritis and obstruc-tion of 151 formation of from bladder 154 stricture of 3.5 operative treatment of large defects in 417 roentgenological demonstrat on of stricture and rup

ture of 458 Urethroscopy Posterior in diagnosis and treatment of

chronic prostatitis 550

Urmary tract Calculus of upper treated by new methods 53 uretero-ureterostomy as applied to obstructions of duplicated upper 54 cause and prevent on of infections of after exci ion of rectum 430 surgical treatment of urogenital tuberculosis 4 8 treatment of infection of 463 primary suture in operations on 463 Urination Physiology of 463

Urine Extravasation of 463 acute complete retention

of and delivery of large fibromyoma 516 Urography Pitfalls in 260

Uterus Olshausen operation for retroversion of 42 rela tion between structure and prognos s in cervical car cinoma under radiation treatment 42 rebellious cervicitis from cysts high in canal 43 mans ement of uterine malignancies at Radium Institute of Lin versity of Pans 44 mixed tumors of cervix of 45 sarcoma botryoides of 45 roentgenology of pelvis 45 use of radium in gynecology 46 sterilization of

to present status of ergot question with particular reference to preparations used in obstetrics and gynecology 51 double 137 treatment of cysts cer vicitis by cauterization 137 results of radium treat ment of carcinoma of cervix uteri 130 140 241 444 mixed tumors of 130 cystoscopy in carcinoma of 130 autotransplantation of ovary into cavity of 143 effect of bile salts on automatic contractions of 141 rigid and stenosed cervix in first stage of labor 144 bacterial content of on fifth day of normal puerperium 145 bacterial content of at casa can ection 145 cervical infections in puerperium 146 improved techn que in operations of colporrhaphy and Watkin's interposition operation 240 tuber culosis of cervix of 240 hamorrhage of and its treat ment 240 fistula of 340 hyperplasia of endom trium 340 sarrous methods of treating carcinoma of cervix 140 certain gynecological and obstetrical conditions as exhibited in colored and white races 342 thera peutic methods and results at Radiumhemmet 375 operati e treatment of prolap e of by interposition method 443 treatment of benign lesions of cervix of

of cancer of by smears 536 carcinoma of after menopause 537 p mary polymorphous sarcoma of with meta tases 537 syphilis and cancer of 53 VACCINATION against telanus 11th telanus anatosin

443 fibromyomata of 443 diagnossa and treatment of cancer of 444 Ipoma of 444 gential hamorrhage in old women 445 acute complete retention of urne and delivery of 1 rge fibromyoma 236 early diagnossa

Vaccine Intravenous use of typhoid paratyphoid in eve diseases III intravenous in ctions of typhoil in peripheral vascular diseases 274 streptococcal in treatment of puerperal sepsis 453 multiple miliars abscesses of liver cured by laparotomy and 532 treatment of metritis by inframucous and submucous injections of 535

legna Cure of intractable vesicovaginal fistula by use of pedicled muscle flap 45 mixed tumors of 130 sarcoma of in adult 143 bacterial content of on fifth day of normal purepenum 145 relaxation of anterior wall of 341 gento-unnary fistula in the female 445

discharge from due to trichomonas vaginali 415

175 Vancose veins Complications follo and injection treat ment of 275 etiology pathogenesis and treatment

of ulcus crurs 278
Vas deferens Value of injection of in chronic genital

mlections 154

lem Stream line phenomena in portal 133 tempera
ture effect of ligation of populteal in thrombo-anguitis
obliterans and arternosclerosis 159 ligation of artery
and concomitant in operations on large blood vessels
150 primary thrombosis of avillary 274 accessory

lobe of asygos 435 artenovenous ancurism 4,4
vens Complications following injection treatment of vari
cose 275 ethology pathogenesis and treatment of
ulcus crurs 278 abnormabities of in brain 410 venous
pressure 474

Vertebra See Spine
Vestcovaginal fistula Genito-urinary fistula in female 445
Vincent's angina Intramuscular injections of bismuth in
415
Visceral sensations Experimental study of certain 481

Vision Acuity of within area centralis and its relation to every emovement and fixation 411 Volkmann sichamic contracture Treatment of 264 267 Vomiting Duodenal drainage and duodenal feeding in uncontrollable of peritonitis 214

Vulva Use of radium in gynecology 46

WATKINS interposition operation Improved tech
nique for 240 in treatment of cystocele at middle
age 343 in treatment of prolapse 443

Weber Ramstedt operation Insidequacy of in pyloro pasm 217 Weight Effect of continued administration of iodides and other salts on of body 100

other salts on of body 199
Winterstein Hans and all or none law of narcosis 476
Wolcott Erastus B and nephrectomy 103

Wounds Healing of 569 Wrist Isolated tuberculosis of 357 fractures of 361

X RAY See Roentgen ray



RIBLIOGRAPHY INDEX

SURCERY OF THE HEAD AND NECK

Head 78 164 2 9 382 483 571 Fye ,8 154 2 9 382 483 571 Fat 79 163 280 383 483 372 No e and cinuses 79 165 281 383 484 572 Mouth 80 166 281 383 484 572 Pharynx 80 166 291 393 485 573 reck 80 166 281 184 485 573

SURGERY OF THE NERVOUS SYSTEM

Brain and Its Coverings Cranial Nerves 81 16 282 384 485 514 Spinal Cord and Its Coverings 82 167 283 395 496 574

Lempheral Nerves 82 168 283 385 486 5 4 Sympathetic Nerves 82 168 283 385 486 5 5 Miscellaneous 82 168 284 385 487 575

SURCERV OF THE CHEST

Chest Wall and Breast 82 168 284 385 48 3 3 Trach a Lungs and Pleura 83 168 284 386 48 Heart and Percardium 83 169 286 386 48 5 6 Esophagus and Mediastinum 83 169 280 380 489 5 6 Miscellaneous 84 169 286 386 488 5

SURCERV OF THE ARROWEN

Undominal Wall and Peritoneum 84 169 286 38 498 Castro Intestinal Tract 84 169 286 38 488 Liver Gall Bladder I ancreas and Spleen 8/ 1 1 299 389 490 580

Viscellaneous 89 172 90 390 491 581

CANKEDIAGO

Uterus 88 173 290 301 402 581 Idnexal and I enuterine Conditions 89 1 3 291 391 492 182 I sternal Genitalia 89 4 292 392 493 582

Miscellaneous 90 174 292 392 493 583

OBSTETRICS

Pregnancy and Its Complications 90 175 292 394 494 Labor and Its Complications 92 | 6 294 305 49, 58,

Puerperium and Its Complications 93 1 7 233 396 496 583 Newborn 93 177 295 396 496 586 Miscellaneous 93 1 8 295 396 496 586

GENITO-URINARY SURGERY

Adrenal Kidney and Ureter 94 178 295 397 497 586 Pladder Urethra and Penis 94 179 296 397 498 587 Genital Organs 95 179 297 397 498 587 Viscellaneous of 180 207 308 408 588

SURGERY OF THE BONES JOINTS MUSCLES TENDONS Conditions of the Bones Joints Muscles Tendons Ltc 95 180 298 398 499 588 Surrery of the Bones Joints Muscles Tendons Ftc 97

182 200 400 500 500 Fractures and Dislocations 97 182 299 400 501 590 Orthopedics in General 98 183 401 502 91

SURGERY OF THE BLOOD AND LAMPH SYSTEMS

Plood Vessels 98 183 300 401 502 592 Blood Transfusion oo 184 300 402 503 592 Reticulo Endothelia! System 301 503 592 Lymph Glands and Lymphatic Vessels 90 195 301 402 503 502

SURGICAL TECHNIQUE Operative Surgery and Technique Po toperative Treat

ment og 185 301 402 503 503 Antiseptir Surg ry Treatment of Wounds and Infections 100 185 302 403 504 593 Anasthesia 100 180 302 403 504 504 Surgical Instruments and Apparatus 100 186 302 403

102 504

PHYSICOCHEMICAL METHODS IN SURGERY Roentgenology 101 186 302 404 505 504 Radium 101 18, 302 404 505 504 Vi cellaneou 101 187 302 404 505 594

MINCELLANGOLS

Clinical Entities-General Thysiological Conditions 101 187 303 404 506 595 Ceneral Bacterial Protozoan and Larasitic Infections

101 187 304 405 507 595 Ductless Glands 102 188 304 406 507 505 burgical Lathology and Diagnosis 102 188 304 406 307

Experimental Surgery 188 304 40(507 596 Ho pital Medical Education and History 102 188 304 400 503



AUTHOR INDEX

Belcher G W 255 Benischek W L 45 Bennett T I 480 Benthin W 445 Berard L 40 Abbott L C 260 Abel A L 212 Adam L 437 Adamson G L 190 thumada J C 240 Alamanni R 537 Reretervide J J 161 Berger S S 523 Berghausen O 310 Albee F H 553 Mexander E G 428 Uevander I 22 Berman S 251 Bernstein B M 21/ Alexandescu G 355 Allen A W 274 373 Berry F B 508
Bertwistle \ 1 2,6 Wen E 137 244
Allen N M 129
Whison N 272 Best R R 332 Bettman H W 438 Bill A H 450
Billington W 455
Billington W 455
Binger M W 3 3
Birkhaug K F 481 amberson J B 522 Amberson J B 522 Anderson A E 355 Anderson C C 478 Anderson J R 108 Andren G 53 Andrews F 326 Birkhaug K F 481 Bissell D 445 Black K 222 Blark P 107 Blalock V 36 Blant V P 107 Blalock V 36 Bland L 244 Bland Sutton Sir J 200 Bloom C J 311 Bobrov 322 Bockus H L 336 Potter C 2 Andrews F 326 Antonucci C 258 Archiball E W 318 Armour D 314 Armstrong R R 453 Arnyat 563 Aschbeim 5 34x Aschner P W 45 tutefage 542 Bockus H L 330 Bolton C 23 Bompiani R 249 Boot G W 122 Borra F 107 Athausen G 463 Babcock W W 143 150 Bader L W 346 Bader L W 346
Baggio G 234
Bagley C Jr 16
Baley H 144 267 430
Baley P 110
Baker T 154
Baldod M 202
Ballour D 127
Bancroff F W 223 230
Ballour D 137
Bancroff F W 223 230
Barlour D 137
Bancroff F W 223 230
Barlour H W 377
Barlour H M 377
Barlour H 303
Barlour H 503
Barl Bothe A E 454 Bovie W R 419 Bowen B D 480 Boyden E A 233 Braasch W F 250 Brachetto-Brian D 533 Bradley J I ±65 Braeucker 423 Brakeley E ±30 Branch J R B ±28 Brandes ±08 Breitlaender 458 Brettlaender 458
Brooks B 36
Brooks E 32
Brown C J O 15
Brown J B 10
Brown J B 10
Brown J H 145
Brown K C 300
Bra n R C 8 18
Hrowne F J 540
Brun R G 131
Buybbelt 200 Barkan O 6 193 Bareni B 380 Baroni B 380
Barrent Lady 146
Barringer B S 259
Barron M L 130
Barrows D \ 43
Barsly J 319
Ba.s 1 5f 5
Ba.set \ 143 533
Ba tanaella P 52
Bauer C I 137 Buchholz 200 Buchwald 102 Bauer C I 137 Baum H L 210 Buchwala 102
Buelbring I 423
Bugbee H G 454
Burnpus H C Jr 458
Burden \ G 125
Bu hans L 198
Burky L I 111
Burley B T 519 Bazy 563 Beatry L C 428 Beck C 5 524 Beckman T 466 Beer L 65

Burnham H H 105 Burrows M T 375 Bychovskij G 335 Cabot II 354 Cade S 514
Cabill G F 353
Caldbirk S L 43f 442
Caldwell G A 68 Callowell G 1 08
Callssano G 555
Callahan W 1 538
Cameron A T 199
Camp J D 333
Campbell M 1 259 353
Campbell W C 269 Campbell W C 26 Campain A 320 Camurati M 361 Cancelmo J J 334 Captecth L 536 Cappell D F 520 Carter B N 318 Carter B N 318 Catter W W 414 Carter W W 474
Cathala V 250
Caulk J R 458
Caylor H D 149
Cecil V B 462 Chance B 310 Chandler F G 211 Chandler F G 211
Chapman J F 130
Chappaz G 51
Chesile Sir G L 208 522
Chesney A M 415
Chevassu M 52 Chivassu M 52 Chiray M 38 Chlenoff Z G 520 Chou C H 310 311 Choyce C C 32 Christian L W 440 Churchill I D 523 Chute A L 153 Cibert J 53 Cicconard: G 532 Clark \ T 109 Cla son T A 415 Clayton E B 559 Clayton L B 550 Clert L H 18 122 Clute H M 343 Cobb C C 235 Cochrane W A 260 Coffey R C 2 353 Cohn I 338 Cohn I 338
Cotdan 54'
Cole L G 21' 223
Cole I F 469
Coley W B 62 3 1
Colston J \ C 5'0
Cooper R 425
Copper G H 133
Cotherly I 1 133
Cotherly I 1 133 Corbett J J 193 Cordes L 419 Cosgrove 5 4 452

Costolow W I 560 Cotton A 6s Cotton Cornwall V 367 Couvelaire A 541 Cowan J F 270 Cov D M 45 Cracovaner A J 523 Crafoord C 426 561 Crafoord C 476 561
Crag C 4 2
Crego C II 269
Crew F A E 146
Crile G W 206
Criscitello M Jr 340
Crossen R II 352
Crossen R J 448
Cullen T S 240
Cuts L 192
Cu hing H 119 415
Cutler F C 318 524
Cutler M 43
Cutler M 43
Cutler M 43
Cutler M 43
Cutler J 5 7 103 1 5 7 103 1 Cutter I S 1 101 180 40 509 Cutting R A 226 Dall Acqua V 265 Dalsace J 247 Daly A 72 Damm P 443 Dandy W E 117 419 Daniels F 162 Danisch F 520 Darcissac M 513 David V 526
David V C 214
David V C 214
Davidson A M 348
Davis D M 354
Davis I D D 194 Davis J D D 194
Davis J F 52 150 254
Davi on W C 212
Dawborn R 1 274
Deaver J B 30 238
Defoug 362
De Jongh S E 244
De Wassary E 150 Denton J 141 Derby G S 310 Dervillée 542 De Sa II 137 Desgouttes L Desgouttes L 326 Desjardins A U 27, Desjardins A Ü 27 Dessand J 362 Dessand J 362 Dessand J 362 Dessand B S 342 Dick B M S 3 133 Dickmson R L 43 Dickson F D 1,38 Dickson W E 27 Dick W 312 501 Dock W 312 501 Dock G II 540

Tev 546

Fey B 545 Figi F A 113

Filatov A 474 Findlay G M 2,8 4 9

Giles A E 245 Giles R G 239

TXV1

Dunn 471 Durante G 6 Durman D C 554 Dusi L 363 Dyas F G 327 Lagleton W P 11, Larlam F 274 Eberts E VI 12f Liberts E M 12f
Lckel J L 9
Idelman L 55
Ldwards A T 211
Ed vards H 550
Figers H L 162
Itkenbary C F 20
Itendrath D 60
Itendrath D 60 I ldh 5 M 515 Lhason L L 33 558 Hoesser L 426 Lle J E 416 I merson W C 482 Engel gaard II dU V

248 248 I rdmann J I 235 I rnst L C 37 I mamn V 541 Funnger H 346 44 F ans W 539 I vans W A 261 478 I vans W H 274 2 6 L erett, H S 242 I wing] 461 lalla G 4 Fairchild f R 197 Fairchild I R 197
Faldini G 36
Falls F H 539
Farmer \ W 194
Farr C F 230
Farnar I K I 139
Feinblatt H M 336
Feldman M 2 J 524
Fellows H 11 21 524

Fello vs II H 335 Fenton R A 196 Ferguson L k 33 48 renz H 214 Ferrer J C 45

Findley P 252
Finney J M T 237
Finney J M T Jr 237
Finney J M T Jr 237
Finzi \ S 416
Litzgibbon C 443 Flagg P J 146
Flandrin, P 159 550
I hnt F R 217 435
I oley F F B 54 I ontaine R 315 I orbe 205 Ford I 342 Ford F V 342 Forester 27 Forsdike S 243 Torssell G 373 Toster W C 330 Fowler L P 113 Francis F 380 Tranke E 202 I ranken H 477 Fraser J 5 196 I rater h 25 Frazier C H 203 redet P 124 l redet P 124
Freeman L 320
I reczer C R 1 275
I remmel F 530
Frey E 248
I ned 11 437
Fredenwald J 213 524
Frontz W A 353
I mbb bolz A 344 I ruhin holz \ 344 Fullerton A 153 Fulton W S 233 Gaebler O H 23 (aglio \ 561 (a)ther F H 215 Calcazzi R 556 Galla, her W J 129 217 Galla, her W J 129 21 Galli G 526 Camble J L 331 Cardener C V 373 Gardnam A J 32 Garlock J H 4 264 Garvin C H 154 Gatewood W E 25 Caucher 2 5
Cay 1 \ 560
Genitz R 440
Geist E 5 67
Gellhorn G 53
Gelpi M J 340
Cemmell A 1 30
Cemmell A 1 30 Cershon Cohen J 336 Chormles R k 26 Gacobbe C 358 Ciacodde U 358
Cib on \ 203
G bson \ G 351
(b on C L 20
(ib on F E 100
Cirtz K H 561
Gifford S R 108 109 31

Gile H IL 353

Cull A B 272
Gill, W D 411
Cm burg L 129 Heiman J 6 Held I W 233 369 Hell trom J 531 Hellwig C A 538 Henderson M S 65 Gioja E 4
Girardier J de 69
Classer O 4 8
Clobus J H 200
Clover J A 6
Goldblatt H 214
Goldbloom A A 369 Goldbaom A A 500
Golden R 330
Goldman I B 10
Goldstan R 370
Gold L P 274
Cow A E 371
Craff E L 371
Craff E C 371
Grant W W 240
Greez J W 174
Greeby H 9 317
Green H 9 317
Green H 9 317
Green J 1 P 345
Greez A L 2 0
Greez A L 2 0 Griffith \ S 161 Gnmault L 30 Crove W E 111
Gruber C M 53
Gruzdev V 381 Cuénn P 143 Guillaume Louis 554 Cuillemin A 248 Guion C M 429 Guleke N 10 Curther L 156 Curdnan E S 420 Guthmann H 447 Gutherrer R 152 Guyer M F 162 Haberer II 337 Haden R L 331 Hadfield C I 72 Hagedoorn A I I Hahn M 350 Haight C 10 Haight C 10
Halpern J 333
Handley W S 161
Hansel F K 514
Hanzhk P J 199
Harmer D 416 Harri A 149
Harri A 149
H rris J N 14
Harris R I 2
Harris R I 2
Harri N 469
Hart D 20
H rt N L 2 1 Ha ter J H 311 Harvey S C 509 Harvey V K 161 Hyselbau r I 163 Hass J 363 Hayward 208 Heald, C B 2 Healy W P 43

Herrold R D 258 Hertz J 149 Hesseler O 555 Heusser H 309 Hibbs R A 265 Hicks J M B 21 Hicks J II 544 Hi gins C C 456 Higgin G M 132 Holl F 110 Hill I 110 Hill L 200 Hillebrand H 134 Hise A 38t Hine M L 193 Hinman I 350 458 Hinselmann H 340 Hirsch F F 259 Hirsch F W 256 H tzrot J M 237 Hodgson H k G 34 Hofbauer J 144 259 Holderman H H 158 Holm H 64 Holman F F 474 Horder Sir T 146 Hornor A P 373 Hornung R 439 Horrall O H 439 Horrax C 10
Horsles J S 12 217
Hossom k 219
Howard H J 111
Howarth W 113
Howes E L 569 Huel ler O 3.7 Hueper W C 198 40 480 Hughes W k 471 Hollik H I 131 Hunner G L 53 Hunt \ C 354 55° Hunter W E 239 Hurst \ F 33 34 2 320 Hutchi on R 13 Hyman 1 152 Ibarz P L 234 Ily n S 328 ingelrans I 108 Ingli K 22 40 Ingvat 5 418 420 Irrmann E 357 Iselm II 425

Hedblom C. \ 310

Hendry J 48 Henline R B 547

Henry A k 268 Henry M O 67 Henschen C 13 441 Henske J A 332 Hernaman Johnson F 216

Herrmann L G 122

Herrold R D 258

Heiller II 2 2

Matthews H B /I

Ivars on G 466 Ivens F 48 451 Ivy R II 192

Jackson (. 210 Jacobson H P 481 Jamé N 449 Jame I R 193 Jankelson I R 432 Jancho J R 432 Le Fur R 60
Jarochy A 505 Legueu 546
Jarochy A 505 Lebouric R 70
Jeck H S 547 Lemon W S 441
Joannules M 19 211 319 Lenorman I 550 lot 252 John on G S 36 Jones D F 235 Jones J P 273 Jones O W 418 ones Sir R 264 Jones S S 349 Jorstad L H 375 John E P 114 Juld F S 40 235 257 373 Juengling O 533

Juler F 311

hahn M H 319 halbite h W k 217 hatayama J 440 heniler V H 2'2 helised k 463 herran J D 523 herr J M M 228 hey F 457 hey J A 203 hidd F 54 56 halbite F 6 425 Kidner F C 472
Kidner F C 472
Kidnore A R 31,
Kimbrough R A Jr 341 Ameaid H L 153 king E 5 544 Kirschner M 3 9 kl 10 E 129 klein W O 450 Aleinberg S 550 Kline B S 523 Knapper C 3 o I mpfer A 150 not L (500 loeng F C 480 l emocks W 445 koontz A R 24 Ko ter H 229 Kraske H 232 kreis J 240 Kretschmer H L 4fo 54h Kutte L S 120 Auctamell 263

Laca agne A 3 6 Ladd W L 230 Lahey F H 114 235 Lahe N C 28 Lamb F W 413 Lane Roberts C S 449 Laqueur L. 244

Lardi T 218 Lanmore J W 131 Larsell O 10f I aschi G 202 Lauber H J 455 Laurinsich A 215
Laurinsich A 215
Lederer I L 300 414
Lee W E 18
Le Fort R 468
Le Fur R 60 Lenche R 63 267 315 Lesné L 124 Leucutia T 261 478 IeWald L T 338 Lewy A 106 Libenthal H 522 523 Lillie H I 414 Lillie M I 414
Lillie M I 414
Lindgren E 460
Lindqui t S 532
Lind av M k 66
Linell F A 195
Livings on G S 414 Hambias J 533 Lobre F 247 Lockwood C D 208 Loeser A 250 Long P H 2,8 Looper E A 313 Louria H W 220 Lower W F 255 456 I owsley O S 459 Lucio B A 143 Lundh C 439 Lundwall K 345 Lyle H H M 325 Lynch F W 144 Lyon E C Jr 539

MacAusland W R 43 552 MacCarty W C 225 378 MacDonald S 255 MacEachern M T 482 MacFarlane J A 229
MacFarlane J A 229
MacLeod J M H 2,5
Maglulo A 559 563
Magnuson I B 472 Mallet Cuy P 40 Mandl F 217 Mandler V 432 Mangaherra Mhernaz P S14
Manges W F 212
Mann I C 111
Mannin R 63
Mansfeld G 476
Warkoff N 154 Marlow S B 11 Marshall 1 J 42 Martin L 125 Martin W 3 7 4 9 Masson J C 137 310 Mather J H 425 Ma hieu A 144

Maybaum J L 107 Mayer O 195 413 Mayneord W V 1,9 Mayrs F B 545 Mazzola V P J Mazzola V P /1 McClintic C F 257 McCormack F C 349 M Cracken I F 431 McCreery, J A 308
McCullagh E P 312
McFadden G D F 263
McGregor G W 311
McIlrath C H 21 McIntosh C A 128 McIver M A 331 McKendrick J S 228 McKhann C F 153 McLean A J 120 418
McMurn h J P 130
McPhedran F M 429
McPheeters H O 275 278 McPheeters H O 2 Neara F 5 429 Nears J V 45 Mersen V 531 Meland O V 569 Mengel W G 413 Mensor M C 35 Mensor M U 156 Meyer W 523 Meyers M 430 Michon P 201
Middleton W 5 474
Millar T McW 224
Miller C J 342 528
Miller D 48
Miller J L 516
Milligan E T C 56 Mills L 412 Mitchell R 148 Mour P J 436 Moise T S 126 Moll H 217 Woll son W M 198 321

Palma R 205 Fancoast H K 110 Monnier E 438
Mor arrat K W 30
Moody R O 238
Moore A B 231 373 Moore R A 254 Moore S 448 Moore B F 427 Moorhead S W 550 Morison D M 455 Morley J 223 Moreova A 347
Morto on M E 359
Morto A H 47
Morto A C 55
Morton J J 159
Morton Falmer F W 2 5 Mos er W B 6 Moster W B o Mottram J C 375 Mouat T B 56 Mowat G T 140 Moynthan Sir B 432 Pfaneuf L L 443 Phemi ter D B 2f1 466 Pickles W 349 Ligeaud II 542

Muller G P 121

Munro D 350 Muntwyler E 25

Murphy G T 132

Murray C R 270 Murray E F 41 Muschat M 454 Musil V 560 Mutel 362 Myers V C

Naffziger H C 418 Nathanson J N 50 Naumann H 432 Nedelmann E 423 520 Nelson E I Neugebauer F 332 N 11 G B 417 Newell O U 244 North C C 341 Yovax 1 141 242 Nystrom G 426

Ochsner A 317 Ockerblad N I 547 O Connor D 198 Olitsky P K 2 8 Onel G H 3 Orosco G 533 Orr J L 538 Orr T G 331 Orth O 40 O good R B 2,1 Overgaard A I 56, Ouings J C 128 Pacha K. R. 160 Pack G. T. 44 Packard C. 74

Papin E 52 Papin M 152 Larker B R 40 Parker G 77 Parsons E 137 Partsch 458 Paterson II J 216 Patey D H 274 Patey D H 274
Patter G L 51
Patterson R H 359
Lavel I 38
Payr E 467
Pearse H D Ir 60 159
Peet M M 0
Pendergrass E P 18
Pendergrass R C 332
Perry I H 47 Petermann 533 Peterson R A 411 I etit Dutaillis D 203 Petit Dutaill 6 P 45 Petitpierre M 3 7 Petzetakis 337 Pfahler G E 415

Piney A 150 Pitkin G P 349 Priton E 554

Platt 11 15 432

INTERNATIONAL ABSTRACT OF SURGERY

Soiland 1 560

Poate II 225 Poe D L 414 Pohl A 449 Pohle F A 2 7 I inclour 1 535 Polak J U 246 Polya J 26 I onder C W 367 Popomares A 251 Portmann G 196 413 Portmann G 196 413 Portmann U V 478 Porzelt W 334 Porzelt W 334
Potter C 151
I oulton F P 480 481
I ratt J P 244
Prestnin O 240
Pribram B O 36
Priestley J T 48
I roleau W H 425
I utti V 360 Radire L 526
Radwány S 453
Radisback O C 561
Råke G W 275
Ramos V P 343
Randall M 32
Randolph H S 546
Rankin I W 29
Raydin I S 18 359 Reaves R & 514 Reances R G 514 Rechniewski C 161 Redevill F H 463 Reeves R J 238 Regaud C 566 Regenbogen J H 476 Reichert F L 120 Reind M R 121 Reimann S P 238 Reinhard 162 Resner 1 444
Res singer H 441
Retan G M 435
Retterer E 41 355 Rey 5 214
Reynolds F L 113
Ricard A 326
Rice C O 275
Rice T B 161 373 Richter H M 134 Rieder 205 Rieder W 423 Rieder W 423 Rienhoff W F Jr 212 Rigby O C 415 Righer L G 327 Rio Hortega P 9 R₁ ser J C 265 Rixford E 468 R₁zzaca a V 541 Robbiani A 533 Roberts F 213
Roberts W J 146
Poberts W M 223
Robertson W L 22/ Rodin F H 309 Rollier A, 568 Rolnick H C 460 Romano N., 214

XXV3U

Romberger F T 374 Rones B 110 Ronzini M 522 Rosenblatt M 5 430 Rosen tein 1 463 Rosenthal S 319
Roth P 563
Roth I B 68
Royle N D 267
Rubin I C 43
Rudnick D F 352
Ryle J A 436 Sampson J A. 241
Sargent Str. 202
Sarver R A. 277
Schaef H W. 472
Schaef H W. 430
Schall LeR V. 123
Schaufler G C. 144
Schullags M. 150
Schuldt F H 538
Schuddt E 463
Schmdt L I. 250
Schmut H 444
Schneider L V. 313
Schneider L V. 313
Schneider U. V. 313
Schneider U. V. 313
Schneider U. V. 313
Schneider G Schult C Schu campson J A. 241 Schnek F 203 Schoel F 203 Schoel F 203 Schoel F 347 Scholl A J 135 435 Scholl A J 135 435 Schude F 538 Scott W J V 38 Scudder C 67 Sear H R 375 Seitz V B 478 Seng M I 139 Serra G 548 Sewall E C 193 197 Share W S 105 Sewall E C 193 197 Sharpe W S 195 Shaw W 139 453 Shaw W 748 Shappe W M 233 Sherman W O N 50 Sherman W A 35 Sherwood W A 36 Shapway F L 72 Shore B R 377 Shore B R 377
Short A R 320
Sicard 275
Siddall A C 247
Siegert F 530
Siliverskiold N 558 Silfverskiold N 558
Silva R 311
Simmons C C 192
Simon H L 237 340
Simon J 472
Simons E J 337
Skillern R H 1 137
Skillern R H 1 137
Skillern R A 5/9
Slesinger F G 226
Sign 162 Siye II 162 Smith K R 309 Smith R F 123 Smith R K 132 Smith W S 141

Smithes F 530 Smithwick R. H 274

Soldi 4 361 Soldov B 329 Soloway H M 443 Sooy J W 560 Sozon Jaro evi 322 Sparks J L 214 Spitzer W M 456 Spriggs J 328 Sprowl F G 202 Sserdjukofi M 347 Stabins S J 331 Steblin Kaminsky 322 Stegemann H 476 Steinberg B 214 Steinforth T 253 Steinhardt B 252 Stern W G 263 Stern W G 263 Stevens A R 461 Stevenson G H 447 Stevart J I 113 Stevart J I 113 Stevart J J 226 Stidn V 249 Stoldart W O 72 Stoker F 195 Stone F 154 Stone H B 28 31 Stocker B 48 Stockey B 421 Stovall W D 317 Storall & D 317
Struker I 69
Strong L (2 8
Sturm F 3 9
Sugura K 162
Swaim L T 2(7
Swaim L T 2(7
Symbols C P 314 Tammann 236 Talbot E P 199 Tanasesco 27 Tassman I S 6 Taylor J 157 237
Taylor J F 379
Taylor R T 158
Ternev C F 223
Terracol J 4
Thaler H 444
Thearle W H 318 Theis F V 159
Their en C F 146
Thomas L k 72
Thomas T T 558
Thomp on G J 458
Trampson H L 25 Thompson L 113
Thoms II 303
Thomson Sr St C 116 Thorlakson P H T 437 Thorpe I S 427 Tasdall J F 110 Titus P 43 450 Todd II C 107 192 Tollef on D (246
Trattner II R 548
Traut H F 137
Trinca A J 18
Troe tzsch J 352
Truesdale P E 222

Tucker C 13 Furner A L 113 106 Turner T W 33 Furner W 21 Ullmann H J 550 Vail D T]r 193 Van Bogaert L 206 Van Hoosen B 450 Van Vuys R G 238 Van Wagener W P Vaughan S I, 480 Verables J F 33 Verbrugge J 200 Vértes O 45 Viana O 536 Visher J W 257 Vodoguinskaya S V Wade R B 470 Wade R B 470
Wagner Jauregg J 514
Walker G F 436
Walker K 258
Wallace J O 157
Wallin I E 456
Walton A J 12 328
Wangensteen O H 331 Wangensteen O H 33'
Ward F 56
Ward G G 130 241 34
Ward R O 56
Waters R. 226
Waters C A 560
Watson R F 146
Watson Williams P 413
Wat J C 465
Waugh G E 124 Nebster B 415 webster B 415
We ks W W 309
Wehik M 430
Weddein I F 122
Weinberg J 4 122
Weintrob W 220
Weissman W 530
Wesson M B 360 351 Westman 1 539
Weyl C V 420
Weymouth F W 411
Wheeler J M 108
Wheeler Sir W I de C 34 Whipple 4 O 238 Whitaker L R 38 White F W 235 432 Whitemore W 427 Wenter M 309
Wenter M 309
Weste F R 522
Wijnen H 1 55
Wilder R M 373
Wilhelm R 469 Wilkie A L 232 Wilkie D P D 527 William R J 254 Williams F 446 Williams II W 420 Willams J W 243 Willams J W 243 Willam T J 195 Wills B C 131 Wilmoth P 350 Winkelbauer 1 198

Tucker 162

Wischnewsky V W 72 Wi eman M 146 Wolfe S A 14t Wolfe J A 440 Wolf E 310 Wolfsohn G 432 Womack N A 197 Wood F C 378 Woods A C 110 111 Woollard H H 424 Wight A J M 210 Wight G 220 Wight I S 373 Wyatt R B H 193 lates I L 114 195 leasan II 460 leasa A 228 leasa C A 310 leasa H H 355 leasa J 252 /anoh R 3(0 364 Zimmerman L V 134 Zimmermann E L 101 71nn W I 213 524 Zoeller C J 4 6 Zondel B 341